

Evergreen Documentation

Documentation Interest Group

Evergreen Documentation

Documentation Interest Group

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Part I. Introduction

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Chapter 1. About This Documentation

This guide was produced by the Evergreen Documentation Interest Group (DIG), consisting of numerous volunteers from many different organizations. The DIG has drawn together, edited, and supplemented pre-existing documentation contributed by libraries and consortia running Evergreen that were kind enough to release their documentation into the creative commons. Please see the [Attributions](#) section for a full list of authors and contributing organizations. Just like the software it describes, this guide is a work in progress, continually revised to meet the needs of its users, so if you find errors or omissions, please let us know, by contacting the DIG facilitators at docs@evergreen-ils.org.

This guide to Evergreen is intended to meet the needs of front-line library staff, catalogers, library administrators, system administrators, and software developers. It is organized into Parts, Chapters, and Sections addressing key aspects of the software, beginning with the topics of broadest interest to the largest groups of users and progressing to some of the more specialized and technical topics of interest to smaller numbers of users.

Copies of this guide can be accessed in PDF and HTML formats from <http://docs.evergreen-ils.org/>.

Chapter 2. About Evergreen

Evergreen is an open source library automation software designed to meet the needs of the very smallest to the very largest libraries and consortia. Through its staff interface, it facilitates the management, cataloging, and circulation of library materials, and through its online public access interface it helps patrons find those materials.

The Evergreen software is freely licensed under the GNU General Public License, meaning that it is free to download, use, view, modify, and share. It has an active development and user community, as well as several companies offering migration, support, hosting, and development services.

The community's development requirements state that Evergreen must be:

- Stable, even under extreme load.
- Robust, and capable of handling a high volume of transactions and simultaneous users.
- Flexible, to accommodate the varied needs of libraries.
- Secure, to protect our patrons' privacy and data.
- User-friendly, to facilitate patron and staff use of the system.

Evergreen, which first launched in 2006 now powers over 544 libraries of every type – public, academic, special, school, and even tribal and home libraries – in over a dozen countries worldwide.

Part II. Evergreen 2.12 Release Notes

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Chapter 3. Evergreen 2.12.12

This release is a security release that fixes cross-site scripting (XSS) vulnerabilities in the Evergreen public catalog.

Security Issue: XSS Vulnerability in Public Catalog

This release fixes several cross-site scripting (XSS) vulnerabilities in the public catalog. When upgrading, Evergreen administrators should review whether any of the following templates have been customized or overridden. If so, either the template should be replaced with the stock version or the XSS fix (which entails adding the `| html` filter in several places) applied to the customized version.

- `Open-ILS/src/templates/opac/parts/record/contents.tt2`
- `Open-ILS/src/templates/opac/parts/record/copy_counts.tt2`
- `Open-ILS/src/templates/opac/parts/record/issues-mfhd.tt2`

Note that exploiting the XSS vulnerabilities fixed in this release would require either the ability to create maliciously-constructed MARC bibliographic or holdings records or the ability to set a maliciously constructed organizational unit name.

Acknowledgements

We would like to thank the following individuals who contributed code, tests and documentation patches to the 2.12.12 security release of Evergreen:

- Galen Charlton
- Dan Scott
- Chris Sharp

Chapter 4. Evergreen 2.12.11

This release contains bug fixes improving on Evergreen 2.12.10:

- The MARC Editor in the Web staff client now wraps long fields.
- The MARC Editor no longer allows catalogers to enter new lines into MARC subfields.
- Fixes an issue in the Web staff client reports module that caused syntax errors in reports that use virtual fields and joins.
- Fixes an issue that created duplicate copy data when copies or volumes with parts were transferred.
- Fixes an issue with the http → https redirect on Apache 2.4.
- Fixes a color contrast accessibility issue in the Web staff client and adds underlining to links in grids for added accessibility.
- Adds automated regression and unit tests for the Web staff client reports module.

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- Galen Charlton
- Blake Graham-Henderson
- Kathy Lussier
- Remington Steed
- Jason Stephenson
- Cesar Velez

Chapter 5. Evergreen 2.12.10

This release contains bug fixes improving on Evergreen 2.12.9:

- The patron bills screen now prevents staff members from double-clicking on the Apply Payment button (which otherwise would apply two payments).
- Fixes a performance bug related to patrons logging in by barcode.

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- Jason Stephenson
- Dan Wells

Chapter 6. Evergreen 2.12.9

This release contains bug fixes improving on Evergreen 2.12.8:

- Nodejs is now installed from source, rather than using a pre-compiled binary.
- Nodejs is now at version 6.11.3, which is the most recent LTS release.

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- Jeanette Lundgren
- Ben Shum
- Remington Steed

Chapter 7. Evergreen 2.12.8

This release contains several bug fixes improving on Evergreen 2.12.7:

- Many patron fields have been redacted from the web staff client's patron and record holds grids, leaving patron name, username, and ID.
- Fixes two bugs where patron records could fail to be saved upon editing.
- The patron summary in the web staff client now correctly displays primary and secondary ID values.
- Patron barcode search completion in the web staff client now allows the user to select from all of the matching patron records.
- The web staff print templates for current and historical bills can now include copy barcode and title.
- Fixes a bug that resulted in some catalog searches unexpectedly timing out.
- Fixes a bug where placing a hold request in the public catalog could result in "forgetting" the type and library of the user's previous search.
- Fixes a bug that made using the volume/copy editor to change a copy's price problematic.
- The administration interface for hard due dates now ensures that new (or edited) ceiling dates have their time component set to end of day, resolving an issue where ceiling dates would not be applied during the ceiling date itself.
- Asset merging during bibliographic record merging now correctly recognizes call number prefixes and suffixes and deletes disused call number records.
- The Concerto sample data set now includes data allowing for testing placing holds on monographic parts.
- Fixes a bug where displaying user surveys could result in PCRUD drone starvation.
- Fixes a bug where `pg_restore` of an Evergreen database could fail to create certain indexes on the `actor_usr` table.

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- Kyle Huckins
- Michele Morgan
- Mike Rylander
- Remington Steed
- Rogan Hamby

Chapter 8. Evergreen 2.12.7

This release contains several bug fixes improving on Evergreen 2.12.6

- Fixes a bug in the web staff client that prevented initials from being stored with copy notes.
- Adds billing types that may have been missed by systems that were running Evergreen prior to the 1.4 release.
- Fixes a web staff client bug with the CSV export option available from the Import Queue in the MARC Batch Import/Export interface.
- Adds the missing copy alert field in the web client's volume/copy editor.
- Fixes a bug where the setting to require date of birth in patron registration was not being honored in the web staff client.
- Fixes a bug in the web staff client patron registration form where the password wasn't generating from the last four digits of the patron's phone number.
- Fixes an issue in the web staff client where the complete barcode did not display in some interfaces when partial barcodes were scanned.

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- Chris Sharp
- Ben Shum
- Remington Steed
- Cesar Velez

Chapter 9. Evergreen 2.12.6

This release contains several bug fixes improving on Evergreen 2.12.5.

- Removes the option to add a title to My List from Group Formats and Editions searches where the option never worked correctly due to a bad id.
- Removes deleted shelving locations from the web client's volume/copy editor. Since there is no database constraint that prevents a copy from a deleted shelving location, if there are already copies attached to those shelving locations, the copy location selector will be blank. Evergreen admins can identify those items by running the following query:

```
select acp.id, acp.barcode, acpl.name
from asset.copy acp
join asset.copy_location acpl on (acpl.id = acp.location)
where not acp.deleted
and acpl.deleted
order by acp.id;
```

- Adds the patron opt-in check in the web client whenever a patron is retrieved by barcode scan, patron search, or item circ history.
- Fixes a bug where the price and acquisitions cost fields did not display their values.
- Fixes a bug where a patron's circulation history no longer moved to the lead account when merging patron accounts.
- Now hides the ebook tabs in My Account for sites that have not yet enabled the Ebook API service.
- Trims spaces from patron barcodes in the web client check out interface.
- Makes a string in the holds validation alert translatable.
- Fixes a bug that prevented the web client patron registration screen from loading when there is an opt-in action triggers, such as the email checkout receipt, t set to be a registration default.
- Fixes a bug where barcode validation in the web client patron editor was using the incorrect regular expression.
- Replaces an empty string in the mobile carrier dropdown menu with a Please select your mobile carrier label to improve usability and resolve a problem with translations.
- Restores the ability to display a photo in the web client patron editor for accounts that have an actor.usr.photo_url.
- Fixes a Firefox display issue in the web client that occurred when retrieving a bib record by TCN when the MARC Edit tab was set as the default view.
- Fixes an bug where setting a patron's default pickup location in the web client patron editor inadvertently changed the home library. It also disables any locations that are not viable pickup locations.
- Fixes a bug where a misscan in a copy bucket failed silently.

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- Jane Sandberg
- Ben Shum
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Chapter 10. Evergreen 2.12.5

This release contains several bug fixes improving on Evergreen 2.12.4.

- Hides the Hold is Behind Circ Desk checkbox in the XUL client's patron registration screen for those libraries that have not enabled Behind Desk Pickup support via the Library Settings Editor
- Adds a missing error string that appears when marking an item damaged from an aged circulation.
- Changes the hold request form so that it no longer defaults to the first SMS carrier for text notifications.
- Adds a requirement for users to enter a phone/SMS number when they have enabled that notification method on the hold request form.
- Changes the URL pointing to catalog images, CSS and javascript files to a full absolute URL instead of the relative URL previously used. This change fixes an issue with the Open Graph image property, which requires a full URL.
- Fixes an issue where payment amounts sent to Stripe can be one cent less than the actual Evergreen payment.
- Fixes an issue where the open-ils.storage OpenSRF module fails to start when using perl 5.24 or higher.
- Fixes a problem in the web client where marking a transaction as claims returned or claims never checked out at the same time the patron's record is edited would not increase the count once the patron's record is saved.
- Changes the cursor to a pointer for the record menus in the web client.
- Fixes hardcoded patches in srfsh support scripts.
- Prevents a "Use of freed value in iteration" error that appeared in logs when adjusting a transaction to zero.
- Prevents the temporary list page from crashing when a user adds the same title to the list more than once.
- Removes duplicate rows from localized 950.data.seed-values.sql files.
- Fixes the following two issues with conjoined items:
 - Foreign items previously did not display there was no extra copy attached to the bib record.
 - Conjoined items did not display unless there were two or more items in a set.
- Fixes an issue in the web client where the Hold Verify prompt did not display for items in a Copy Location where the hold verify flag is enabled.

- Fixes support for automatic item barcode completion in the web client check in, check out, renew, and item status interfaces.
- Makes the courier code variable available for transit slips in the web client.
- Fixes the ability to apply funds from the acquisitions selection list, View/Place Order, and MARC Federated Search interfaces.

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- Josh Stompro
- Cesar Velez
- Liam Whalen
- Dan Wells

Chapter 11. Evergreen 2.12.4

Upgrade Notes

- This release of Evergreen contains a fix to the Hold/Copy Ratio per Bib and Pickup Library (and Descendants) data source. Report templates using this data source will need to be re-created to improve accuracy of the data reported from this source.
- This release also contains a fix to downloading large checkout histories from My Account. This feature no longer uses the action/trigger mechanism and the OPAC now generates the CSV directly. The old action/trigger code is still present in the database and should be removed at some point in the near future.

Bug Fixes

This release contains several bug fixes improving on Evergreen 2.12.3

- A fix to a web client bug where adding copies through the Add Volumes and Copies menu item could fail silently.
- A fix to a bug that allowed users to access some web client admin interfaces without a login.
- A fix to the display of the loan duration and fine level fields in the web client Item Status Detail view.
- A fix to the display of duplicate data on the bib record View Holds page when toggling between the holds and OPAC view.
- A fix to a bug that prevented the web client patron registration page from loading.
- Support for Org Unit Includes alert text, notice text, event text, header text, and footer text in the web client print templates.
- A fix to make the web client MARC Editor's flat text editor selection sticky.
- A fix to make the Patron Search library selector sticky.
- A fix to a bug in the web client that prevented the user from saving a new copy after using the MARC Edit Add Item option.
- A fix to a patron registration bug that did not require the entry of a required user statistical category for stat cats that do not allow free-text entries.
- The addition of the bad barcode image file in the web client.
- An improvement to the MARC Batch Edit progress indicator to reduce the likelihood of system backlogs.

- Downloading checkout history as a CSV from My Account has been fixed for users with a large circulation history. Previously, this would time out for patrons with more than 100 or so circulations.
- A fix to syntax in the Spanish lang.dtd file that was creating an error when using the Closed Date Editor.
- Improvements to CSS to silence some Mozilla extension warnings.
- A fix to a failure to update targeted circulations when utilizing the recall functionality.
- The addition of text wrapping in the copy details table on the bib record to prevent contents from falling off the page.
- A fix to the adjust to zero option so that it can be applied correctly to multiple billings.
- A fix to the "Hold/Copy Ratio per Bib and Pickup Library (and Descendants)" data source so that it will now include counts of eligible copies at locations that are not a pickup library for bib's holds.
- A fix to the XUL client Item Status → Alternate View → Holds / Transit tab so that it properly refreshes all data when switching between copies.

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- Dan Scott
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- Jason Stephenson
- Josh Stompro
- Cesar Velez
- Dan Wells

Chapter 12. Evergreen 2.12.3

This release contains several bug fixes improving on Evergreen 2.12.2.

Web Client Bug Fixes

The web client, which is available for trial production use in libraries, received several fixes in this release:

- The receipt on payment checkbox now prints a receipt at time of payment.
- The Items Out count in the patron screen now includes long overdue items.
- A fix was added to prevent values from a previously-edited patron from appearing in the edit form of a subsequent patron.
- User notification preferences now save correctly in the patron registration and edit forms.
- The UPDATE_MARC permission is no longer requested when performing a search from the staff catalog.
- Non-cataloged circulations now display in the Items Out screen without requiring a refresh.
- Required statistical categories are now required to be entered in the copy editor. (A similar bug for the patron editor was fixed in the 2.12.1 release).
- Voiding bills now requires confirmation.
- Staff can no longer use the copy editor to put items into or out of the following statuses: checked out, lost, in transit, on holds shelf, long overdue, and canceled transit.
- The contrast is improved for alert text showing the amount a patron owes in bills.
- Circ modifiers now sort alphabetically in the copy editor.

Other Bug Fixes

- Code to prevent a hold already on the Holds Shelf from being transferred to another title.
- A fix to a bug that prevented users from scheduling reports with a relative month if the report template used a date that applied the Year Month transform with the On or After (>=) operator.
- A fix to a bug where the max fines threshold was reached prematurely due to the presence of account adjustments.
- A check that prevents a SMS message from attempting to sending when the SMS carrier is null.
- For systems that provide search format as a filter on the advanced search page, a fix so that the format selected in the search bar when launching a new search from the results page overrides any previously-set formats.

- The addition of an optional new Apache/mod_perl configuration variable for defining the port Apache listens on for HTTP traffic. This resolves an issue where added content lookups attempting HTTP requests on the local Apache instance on port 80 failed because Apache was using non-standard ports.
- A fix to the public catalog's My List page responsive design so that it now displays properly on mobile devices and allows users to place holds from My List.
- A fix to a bug where the second (and subsequent) pages of search results in the public catalog (when group formats and editions is in effect) does not correctly generate links to hits that are not part of a multi-bib metarecords.

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- Dan Scott
- Chris Sharp
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- Cesar Velez
- Dan Wells

Chapter 13. Evergreen 2.12.2

This release is a security release that also contains several other bug fixes improving on Evergreen 2.12.1.

Security Issue: XSS Vulnerability in Public Catalog

This release fixes several cross-site scripting (XSS) vulnerabilities in the public catalog. When upgrading, Evergreen administrators should review whether any of the following templates have been customized or overridden. If so, either the template should be replaced with the stock version or the XSS fix (which entails adding the `| html` filter in several places) applied to the customized version.

- `Open-ILS/src/templates/opac/parts/locale_picker.tt2`
- `Open-ILS/src/templates/opac/parts/login/form.tt2`
- `Open-ILS/src/templates/opac/parts/searchbar.tt2`

Upgrade Notes

- Administrators of Evergreen who use RTL locales and who have customized `style-rtl.css.tt2` should now incorporate their customizations into `style.css.tt2`.
- The `reporter.classic_current_circ` view, which is part of some extra views defined in `Open-ILS/src/sql/Pg/example.reporter-extension.sql`, has been fixed to not exclude loans for patrons who do not have a billing address set. Users of this view should rerun `Open-ILS/src/sql/Pg/example.reporter-extension.sql` during upgrade.

Hold Targeter Repairs and Improvements

A series of changes were made to the new hold targeter available in 2.12.

- Make the batch targeter more resilient to a single-hold failure.
- Additional batch targeter info logging.
- Set `OSRF_LOG_CLIENT` in `hold_targeter_v2.pl` for log tracing
- Removes the confusingly named `--target-all` option
 - The same behavior can be achieved by using `--retarget-interval "0s"`
- Removes `--skip-viable` (see `--soft-retarget-interval` below)

New --next-check-interval Option

Specify how long after the current run time the targeter will retarget the currently affected holds. Applying a specific interval is useful when the retarget-interval is shorter than the time between targeter runs.

For example, if the targeter is run nightly at midnight with a --retarget-interval 36h, you would set --next-check-interval to 48hr, since the holds won't be processed again until 48 hours later. This ensures that the org unit closed date checks are looking at the correct date.

This setting overrides the default behavior of calculating the next retarget time from the retarget-interval.

New --soft-retarget-interval Option

This is a replacement for (and rebranding of) the --skip-viable option. The new option allows for time-based soft-targeting instead simple binary on/off soft-targeting.

How soft-targeting works: * Update hold copy maps for all affected holds * Holds with viable targets (on the pull list) are otherwise left alone. * Holds without viable targets are retargeted in the usual manner.

Other Bug Fixes

- A fix to remove the Chilifresh patron reviews header for Evergreen sites that do not use Chilifresh.
- A fix that marks acquisitions POs as received when all line items on the PO are received or canceled.
- A typo fix to the long overdue override permission that prevented staff from being able to override long overdue check ins.
- A fix to use a library's configured currency in SIP patron responses instead of always using US dollars.
- A fix to SIP timeouts caused by invalid sessions
- A fix that allows boolean fields to be recognized in queries to the Z39.50 server.
- A fix to use the correct method during adjust to zero on negative balances.
- A correction to the datatype for the Vandelay Default Record Match Set setting.
- The removal of the Keep field from MARC Batch Import Item Attributes. The field was not previously implemented.
- A fix to set the complete time value for grouped Action/Trigger events when an event's state reach complete, consistent with non-grouped events.
- A fix to a bug in the rollover_phone_to_print.pl script that kept failed call files from being moved.

- A new index for `acq.edi_message` that speeds up the check for duplicate EDI messages.
- A fix that ensures JSON strings are converted to UTF8, ensuring that non-ASCII data display correctly.
- A fix to avoid an erroneous unsaved data popup to appear during MARC record creation.
- A typo fix in the web client's bill payment receipt template.
- A correction to ebook account links on the My Account Summary page.
- Improved responsive design for the ebook My Account screens so that they display better on mobile devices.
- A fix to a bug that prevented a patron opt-in dialog from loading.
- The RTL stylesheet for the public catalog, `templates/opac/css/style-rtl.css.tt2`, has been merged into the LTR one (`templates/opac/css/style.css.tt2`). The combined stylesheet template will emit RTL or LTR styles based on the value of the `rtl` flag of the active locale. An `rtl` variable is also available in the template to allow the correct style to be chosen.
- A fix to leaking of the internal port number to the client when Apache is configured to use nonstandard ports in combination with a proxy server.
- The addition of the `vandelay.auto_overlay_bib_record` upgrade script, which was missed in a 2.1-2.2 era upgrade script. It isn't necessary for sites that began using Evergreen since then to run the script, but it is harmless to run.
- A web staff client fix that will hid the behind-desk option for for libraries that do not support "Behind Desk Pickup".
- A web staff client fix that caused hold transit check ins to fail silently when the transit destination does not have a holds address.
- A web staff client fix that now requires the entry of user statistical categories in the patron editor if those stat cats are configured to be required.
- A fix to a problem with the "Exclude Electronic Resources" checkbox that prevented users from removing a selection from the box.
- The removal of the search format limiters from the new advanced search limiter block on the search results page. The search format limiters should not display there because they can be selected from the search bar.

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Chapter 14. Evergreen 2.12.1

This release contains several bug fixes improving on Evergreen 2.12.0

- A fix to the 2.12 upgrade of the subject|temporal and subject|geographic indexes, where the above-mentioned browse indexes were not turned off in favor of new browse versions of the indexes. Sites that are upgrading from 2.12.0 can cancel the browse reingest that comes with the new upgrade script.
- A change to the default pickup library when staff place a hold. The place hold screen will now default to the preferred pickup location for the patron. If the patron does not have a preferred pickup location, it will default to the patron's home library.
- A fix to a problem where users could not change the selected Org Unit on the MARC Tag Tables server admin page.
- A fix to the seed data for translations for some Coded Value Map entries.
- The ability to skip the XUL staff client build when in make_release.
- Revised layout and styling for the advanced search limiter block that displays on the search results page.
- A fix that silences a log warning that appears for every checkout where a hard due date is not used.
- Tweaks for sounds that are used in the web staff client.
- The addition of f4 and ctrl-f2 as hotkeys in the web staff client.
- Additional help text for receipt templates in the web staff client.
- The reinstatement of the Reprint Last Receipt functionality in the web staff client.
- The ability in the web staff client copy editor to add new volumes to libraries that were not selected in holdings view.
- A fix to a billing issue where transactions were not re-opened after they acquired a non-zero balance at check in.
- A change to the web staff client work log to prevent it from storing unnecessary data.
- A fix to a translation issue for the record attributes displayed in the advanced search limiter block on the search results page.
- A fix to hold targeting for metarecord holds when the new hold targeter is run in parallel mode.

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Chapter 15. 2.12.0 Upgrade notes

Evergreen 2.12 now requires OpenSRF 2.5 or later; certain functionality will not work if you attempt to run Evergreen 2.12 on OpenSRF 2.4. Evergreen 2.12 recommends PostgreSQL 9.4. The minimum supported version of PostgreSQL is 9.3.

The stock schema upgrade script performs a browse and facet reingest, recalculates bib fingerprints, and remaps metarecords.

This version also adds two new services, **open-ils.ebook_api** and **open-ils.hold-targeter**.

Chapter 16. 2.12.0 New Features

Acquisitions

Default status for received line items

A new Library Setting has been added to allow libraries to set the default status for received line items. The previous behavior was to use the "In process" status for all acquisitions items that are received.

Administration

Additional SMS Carriers

SMS carrier definitions are now included for Google Fi and Republic Wireless. These will be automatically loaded when installing a new Evergreen system; admins who wish to add these definitions during an upgrade can use the following email gateway values:

- Google Fi: `$number@msg.fi.google.com`
- Republic Wireless: `$number@text.republicwireless.com`

Bibliographic Fingerprint Improvements

The bibliographic fingerprint will now incorporate subfields \$n and \$p from MARC title fields to better distinguish among records of the same series that may share the same title but have a different part. With this change, these MARC records will no longer be grouped together in a Group Formats & Editions search.

The bibliographic fingerprint was also changed to better distinguish among the fields contributing to the fingerprint. This change will help the system distinguish between a record for the movie Blue Steel and another record for the book Blue written by Danielle Steel.

Batch Hold Targeter Speed-up and New Features

Adds a new `open-ils.hold-targeter` service, supporting new targeting options and runtime optimizations to speed up targeting. The service is launched from a new targeting script, `hold_targeter_v2.pl` (default location: `/openils/bin/hold_targeter_v2.pl`).

This code has no effect on the existing hold targeter, which is still available as of this release and functions as before.

New Features/Options

- Adds a global configuration flag `circ.holds.retarget_interval` for setting the hold retarget interval.

- **--target-all** option forces the targeter to process all active holds, regardless of when they were last targeted.
- **--retarget-interval** option make is possible to override the new `circ.holds.retarget_interval` setting via the command line when calling the hold targeter.
- **--skip-viable** option causes the hold targeter to avoid modifying the currently targeted copy (i.e. the copy on the pull list) for holds that target a viable (capturable) copy. For skipped holds, no entry is added to the `unfulfilled_hold_list`. The set of potential copies (hold copy maps) are refreshed for all processed holds, regardless of target viability. This option is useful for 1.) finding targets for holds that require new targets and 2.) adding new/modified copies to the potential copy lists (for opportunistic capture) more frequently than you may want to do full retargeting of all holds.
- **--newest-first** option processes holds in reverse order of `request_time`, so that newer holds are (re)targeted first. This is primarily useful when a large backlog of old, un-targetable holds exist. With **--newest-first**, the older holds will be processed last.
- **--parallel** option overrides the parallel settings found in `opensrf.xml` for simpler modification and testing.
- **--lockfile** option allows the caller to specify a lock file instead of using the default `/tmp/hold_targeter-LOCK`
- **--verbose** option prints progress info to STDOUT, showing the number of holds processed per parallel targeter instance.
- When configured, hold target loops cycle through all org units (with targetable copies) instead of repeatedly targeting copies at the pickup library when multiple targetable copies exist at the pickup library.
- When configured, hold target loops prioritize (targetable) org units first by the number of previous target attempts, then by their weight/proximity. This effectively back-fills org units that had no targetable copies during earlier target loops so that they are targeted as many times as other org units (to the extent possible, anyway).

Examples

- Traditional daily hold targeter with a value set for `circ.holds.retarget_interval`.

```
/openils/bin/hold_targeter_v2.pl
```

- (Re)target non-viable holds twice a day, only processing holds that have never been targeter or those that have not been re-targeted in the last 12 hours.

```
/openils/bin/hold_targeter_v2.pl --skip-viable --retarget-interval "12h"
```

- (Re)target non-viable holds twice a day, processing all holds regardless of when or if they were targeted before, running 3 targeters in parallel.

```
/openils/bin/hold_targeter_v2.pl --skip-viable --target-all --parallel 3
```

Add separate make target for translators

For those only interested in building Evergreen translations, a separate "translator" make target has been added to allow for easier installation of i18n prerequisites.

Allow admin to specify where Perl modules will be installed

Add `--with-perlbase` option to `configure` to specify an alternative location for installing the Perl modules. This can be useful for setups that want to run the Perl modules from a shared filesystem or environments that need to run multiple versions of Evergreen simultaneously.

Users of `--with-perlbase` are responsible for ensuring that `PERL5LIB` is set appropriately.

Addition of missing permissions

Required permissions that were previously missing from the stock data have now been added. If Evergreen sites have already manually added these permissions, the upgrade script will remove the old permission and create the new one, maintaining any maps to permission groups, with the stock permission ID.

get_org_unit_ancestor_at_depth Helper Added to Action Trigger Reactor Helpers

In action trigger templates it's now possible to call `helpers.get_org_unit_ancestor_at_depth($id_or_aou, $depth)` in order to retrieve a fleshed aou for the target aou's ancestor at the chosen depth. This could be used to retrieve the name of the library system rather than a specific branch name, for instance.

Removed unused selfcheck password setting

There was an unused duplicate selfcheck password setting that was removed to avoid confusion over which library setting was supposed to be set to enable passwords for selfcheck. After upgrading, verify that your library policy remains consistent for this setting.

Credit Processor Stripe Settings Permissions

Unprivileged users can retrieve organizational unit setting values for setting types lacking a "view" permission. When the feature adding Stripe credit card processing was added, the upgrade script neglected to add the `VIEW_CREDIT_CARD_PROCESSING` permission to the organizational unit setting type. This means that anyone can retrieve and view the settings for Stripe credit card processing.

Any system that upgraded from Evergreen version 2.5 to 2.6 is affected. If you use Stripe for credit card processing, it is strongly recommended that you apply this upgrade. Even if you do not use Stripe, applying this upgrade is still recommended. If you did not upgrade from version 2.5 to 2.6 of Evergreen, but started with a later version, applying this upgrade is harmless.

Cataloging

New Access Points for MARC Merge/Overlay Profiles

Catalogers can now select a MARC merge/overlay profile to apply when merging records in the (browser client) record bucket merge and Z39.50 record overlay interfaces. In both interfaces, if the user selects a merge profile, the results of the merge are displayed, giving the user the opportunity to choose a different merge profile or edit the records involved prior to committing to the merge.

A new library setting, "Default Merge Profile (Z39.50 and Record Buckets)", specifies the merge profile to preselect in the new merge profile selectors in the record bucket merge and Z39.50 overlay logs. The selectors will also remember the last selection that the user made.

Circulation

Display Copy Alerts With In-House-Use

Two library settings are used to control the display of copy alert messages or copy location check in alerts when recording in-house-use in Evergreen.

Setting Display copy alert for in-house-use to true for an organization will cause an alert to appear with the copy's alert message, if it has one, when recording in-house-use for the copy.

Setting Display copy location check in alert for in-house-use to true for an organization will cause an alert to display a message indicating that the item needs to be routed to its location if the location has check in alert set to true.

The settings are independent of one another because you may want to display one and not the other when recording in-house-use.

Client

Active Date Column Picker Option

The active date will now be available as a column picker option in the Item Status screen.

Punctuation Insensitive Patron Search

When performing a patron search, punctuation characters will be ignored. So if the patron is named O'Brien, then you can enter Obrien, O'Brien, O Brien, etc. in the search box.

This behavior affects the Last Name (internally: family_name), First Name (first_given_name), and Middle Name (second_given_name) fields of the search.

Touch screen improvements for Evergreen self-check interface

Improvements were made to the Evergreen self-check interface to make it easier to use in a touch-screen environment.

- The pay fines link is now a pay fines button, matching other buttons on the page.
- The checkboxes have been enlarged, making them easier to activate when using a touch screen.

Trial Production Use of the Web Staff Client

The new web staff client is ready for trial production use in all functional areas with the exception of serials and offline transactions. In addition to many bug fixes in the areas of circulation, cataloging, administration and reporting, Release 2.12 sees the following additions to web client functionality.

- Acquisitions interfaces and functionality have been integrated into the web staff client.
- Booking interfaces and functionality have been integrated into the web staff client.
- Hatch, the program that will allow for unmediated printing to multiple printers, sharing of workstation settings, and, eventually, offline transactions is now available. A windows installer for Hatch will be available on the Evergreen-ILS Downloads page.

The Evergreen developers will keep pilot libraries updated about known web client issues by posting known bugs to https://wiki.evergreen-ils.org/doku.php?id=dev:browser_staff:known_issues .

About Hatch

Hatch is not required to use the web client, but should be used for workstations that need to perform the following tasks.

- Unmediated printing to multiple printers. Workstations can print to multiple printers without Hatch, but will need to click through a dialog to select a printer. Hatch allows workstations to automatically print, without dialog, to different printers.
- Storage of workstation settings in a place outside the browser. Storing local preferences in hatch will prevent tampering with preferences via the browser developer tools and protect the settings from possible deletion if the browser deletes settings in local storage.
- When offline functionality is available, hatch will be required to perform offline transactions.

Hatch is currently run as a Chrome extension and is not available in Firefox. To use hatch on Windows, Evergreen sites should:

1. install a java runtime environment version 8 (or higher) if not already installed,
2. download and execute the installer from the Evergreen downloads page,
3. open Chrome and navigate to `chrome://extensions`,
4. enable Developer Mode along the top right of the page,

5. click the Load Unpacked Extension button,
6. load the directory at Hatch → extension → app,
 - a. In Windows, the default location for the app directory will be C:\Program Files (x86)\Hatch\extension\app
7. enable hatch features in the web client by going to Administration → Workstation Administration → Print/Storage Service ("Hatch") and choosing which services to use with Hatch.
 - a. this page will also inform you that hatch is connected.

Infrastructure

Client Timezone Awareness

Previously, adjusting the time zone in which a database session operates could not be done in any way except globally, directly within the database. However, allowing modification of the timezone parameter now supports localization efforts for those consortia that span multiple time zones.

Implementation

CStore and other services that interact with the primary Evergreen database make use of the functionality provided by LP#1485371 in OpenSRF in order to set the time zone configuration parameter available in PostgreSQL. This has the effect of interpreting all timestamps written to or read from the database in the client's time zone.

Within CStore (and related, C-based services), all stateful sessions make use of this capability, setting the database time zone upon a successful CONNECT message from the client. The time zone is reset to the database default when a session is terminated either due to client DISCONNECT or server keepalive timeout.

All stateless requests record the current database time zone, set the database time zone to that of the client's, run the query, and then reset the database time zone on each request that carries a client time zone value. It is expected that this will not cause any noticeable increase in latency or query execution time, as this setting is local to the specific PostgreSQL server backend process.

Within the Storage service, the timezone will be set automatically by a simple wrapper method used by the existing method registration mechanism for method publishing. Disconnect and error callbacks are registered to revert the time zone setting within the database. This provides completely transparent time zone manipulation for backend services that make use of open-ils.storage.

Public Catalog

New Subject Browse Index Definitions

New subject browse index definitions have been added that display the entire heading as a unit with hyphens between terms instead of displaying individual terms separately.

For example, the browse heading for:

```
=650 \0$aCats$zUnited States$vCorrespondence.
```

will display in a single entry as:

Cats — United States — Correspondence

Rather than separate entries for Cats and United States.

Name subjects will continue to display as separate entries because additional work would be required for the heading to be punctuated correctly.

Advanced Search Limiters Enhancement

Advanced search limiters will no longer propagate to the basic search box in the catalog. Instead, the limiters applied to the search will appear underneath the search box where they can be easily cleared by clicking an x. On a small, mobile device, the advanced search limiters can be seen by clicking an x filter applied link.

The selected limiters will be applied to any search from the search bar until: * The user actively removes the filters from the search or * The user starts a new basic or advanced search from scratch.

Arabic and Right-to-Left Language Support for the catalog

New stylesheets and other changes to the catalog to allow for better support of right-to-left (RTL) languages, such as Arabic.

Also adds Arabic (Jordan) as a new supported language.

Ebook API integration

Evergreen 2.12 supports partial integration with third-party APIs provided by OverDrive and OneClickdigital. When ebook API integration is enabled, bibliographic records from these vendors that appear in your public catalog will include vendor holdings and availability information. Also, when a user is logged in, the public catalog dashboard and My Account interface will include information about that user's checkouts and holds for supported vendors.

For API integration to work, you need to request API access from the vendor and configure your Evergreen system according to the instructions below. You also need to configure the new **open-ils.ebook_api** service.

This feature assumes that you are importing MARC records supplied by the vendor into your Evergreen system, using Vandelay or some other MARC import method. This feature does not search the vendor's online collections or automatically import vendor records into your system; it merely augments records that are already in Evergreen.

A future Evergreen release will add the ability for users to check out titles, place holds, etc., directly via the public catalog.

Ebook API service configuration

This feature uses the new `open-ils.ebook_api` OpenSRF service. This service must be configured in your `opensrf.xml` and `opensrf_core.xml` config files for ebook API integration to work. See `opensrf.xml.example` and `opensrf_core.xml.example` for guidance.

OverDrive API integration

Before enabling OverDrive API integration, you will need to request API access from OverDrive. OverDrive will provide the values to be used for the following new org unit settings:

- **OverDrive Basic Token:** The basic token used for API client authentication. To generate your basic token, combine your client key and client secret provided by OverDrive into a single string ("key:secret"), and then base64-encode that string. On Linux, you can use the following command: `echo -n "key:secret" | base64 -`
- **OverDrive Account ID:** The account ID (a.k.a. library ID) for your OverDrive API account.
- **OverDrive Website ID:** The website ID for your OverDrive API account.
- **OverDrive Authorization Name:** The authorization name (a.k.a. library name) designated by OverDrive for your library. If your OverDrive subscription includes multiple Evergreen libraries, you will need to add a separate value for this setting for each participating library.
- **OverDrive Password Required:** If your library's OverDrive subscription requires the patron's PIN (password) to be provided during patron authentication, set this setting to "true." If you do not require the patron's PIN for OverDrive authentication, set this setting to "false." (If set to "true," the password entered by a patron when logging into the public catalog will be cached in plain text in memcached.)
- **OverDrive Discovery API Base URI and OverDrive Circulation API Base URI:** By default, Evergreen uses OverDrive's production API, so you should not need to set a value for these settings. If you want to use OverDrive's integration environment, you will need to add the appropriate base URIs for the discovery and circulation APIs. See OverDrive's developer documentation for details.
- **OverDrive Granted Authorization Redirect URI:** Evergreen does not currently support granted authorization with OverDrive, so this setting is not currently in use.

For more information, consult the [OverDrive API documentation](#).

To enable OverDrive API integration, adjust the following public catalog settings in `config.tt2`:

- **`ebook_api.enabled`:** set to "true".
- **`ebook_api.overdrive.enabled`:** set to "true".
- **`ebook_api.overdrive.base_uris`:** list of regular expressions matching OverDrive URLs found in the 856\$9 field of older OverDrive MARC records. As of fall 2016, OverDrive's URL format has changed, and the record identifier is now found in the 037\$a field of their MARC records, with "OverDrive" in 037\$b. Evergreen will check the 037 field for OverDrive record identifiers; if your

system includes older-style OverDrive records with the record identifier embedded in the 856 URL, you need to specify URL patterns with this setting.

OneClickdigital API integration

Before enabling OneClickdigital API integration, you will need to request API access from OneClickdigital. OneClickdigital will provide the values to be used for the following new org unit settings:

- OneClickdigital Library ID: The identifier assigned to your library by OneClickdigital.
- OneClickdigital Basic Token: Your client authentication token, supplied by OneClickdigital when you request access to their API.

For more information, consult the [OneClickdigital API documentation](#).

To enable OneClickdigital API integration, adjust the following public catalog settings in **config.tt2**:

- **ebook_api.enabled**: set to "true".
- **ebook_api.oneclickdigital.enabled**: set to "true".
- **ebook_api.oneclickdigital.base_uris**: list of regular expressions matching OneClickdigital URLs found in the 859\$9 field of your MARC records. Evergreen uses the patterns specified here to extract record identifiers for OneClickdigital titles.

Additional configuration

Evergreen communicates with third-party vendor APIs using the new **OpenILS::Utils::HTTPClient** module. This module is configured using settings in **opensrf.xml**. The default settings should work for most environments by default, but you may need to specify a custom location for the CA certificates installed on your server. You can also disable SSL certificate verification on HTTPClient requests altogether, but doing so is emphatically discouraged.

Links to Other Formats and Editions

The record summary pages in the catalog will now link to other formats and editions of a title. The links will allow users to quickly jump to another format of the title or an edition written in another language.

Metarecord Search Improvements

This release brings several improvement to the Group Formats and Editions search.

- Limiters on the advanced search page can now be successfully applied to Group Formats and Editions searches,
- Electronic resources are now retrievable through these searches,

- Paged navigation has improved.

Allow Metarecord Search by default

Before the TPAC, a site could configure the public catalog to use metarecord searching by default, via a configuration file. Here we bring that back.

A new setting called `search.metarecord_default` is present in **templates/opac/parts/config.tt2** to enable this feature. By setting this to a true value (normally 1) the TPAC will silently include the `#metabib` search modifier in the search form on any interfaces that do not have a UI component that allows the user to control the setting.

RDA Improvements

- Author fields are now normalized to strip ending periods so that authors from RDA and non-RDA records are collapsed in browse and facet headings.
- All author/contributor roles will now display in the record detail page. Previously, some of the roles were omitted or were duplicated.

Obalkyknih.cz Integration

Evergreen now integrates with Czech added content provider `obalkyknih.cz`. A new setting called `obalkyknih_cz.enabled` is available in **templates/opac/parts/config.tt2** to enable this new feature.

Chapter 17. 2.12.0 Acknowledgments

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- Rodgers Memorial Library

- Sigio
- Traverse Area District Library

We regret any omissions. If a contributor has been inadvertently missed, please open a bug at <https://bugs.launchpad.net/evergreen/> with a correction.

Part III. Software Installation

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Chapter 18. Introduction

This part will guide you through the installation steps installation or upgrading your Evergreen system. It is intended for system administrators.

Chapter 19. System Requirements

Server Minimum Requirements

The following are the base requirements setting Evergreen up on a test server:

- An available desktop, server or virtual image
- 4GB RAM, or more if your server also runs a graphical desktop
- Linux Operating System (community supports Debian, Ubuntu, or Fedora)
- Ports 80 and 443 should be opened in your firewall for TCP connections to allow OPAC and staff client connections to the Evergreen server.

Web Client Requirements

The current stable release of Firefox or Chrome is required to run the web client in a browser.

Staff Client Requirements

Staff terminals connect to the central database using the Evergreen staff client, available for download from The Evergreen download page. The staff client must be installed on each staff workstation and requires at minimum:

- Windows, Mac OS X, or Linux operating system
- a reliable high speed Internet connection
- 2GB RAM
- The staff client uses the TCP protocol on ports 80 and 443 to communicate with the Evergreen server.

Barcode Scanners

Evergreen will work with virtually any barcode scanner – if it worked with your legacy system it should work on Evergreen.

Printers

Evergreen can use any printer configured for your terminal to print receipts, check-out slips, holds lists, etc. The single exception is spine label printing, which is still under development. Evergreen currently formats spine labels for output to a label roll printer. If you do not have a roll printer manual formatting may be required.

Chapter 20. Installing the Evergreen server

Preamble: referenced user accounts

In subsequent sections, we will refer to a number of different accounts, as follows:

- Linux user accounts:
 - The user Linux account is the account that you use to log onto the Linux system as a regular user.
 - The root Linux account is an account that has system administrator privileges. On Debian you can switch to this account from your user account by issuing the **su** - command and entering the password for the root account when prompted. On Ubuntu you can switch to this account from your user account using the **sudo su** - command and entering the password for your user account when prompted.
 - The opensrf Linux account is an account that you create when installing OpenSRF. You can switch to this account from the root account by issuing the **su - opensrf** command.
 - The postgres Linux account is created automatically when you install the PostgreSQL database server. You can switch to this account from the root account by issuing the **su - postgres** command.
- PostgreSQL user accounts:
 - The evergreen PostgreSQL account is a superuser account that you will create to connect to the PostgreSQL database server.
- Evergreen administrator account:
 - The egadmin Evergreen account is an administrator account for Evergreen that you will use to test connectivity and configure your Evergreen instance.

Preamble: developer instructions



Skip this section if you are using an official release tarball downloaded from <http://evergreen-ils.org/egdownloads>

Developers working directly with the source code from the Git repository, rather than an official release tarball, must perform one step before they can proceed with the **./configure** step.

As the user Linux account, issue the following command in the Evergreen source directory to generate the configure script and Makefiles:

```
autoreconf -i
```

Installing prerequisites

- PostgreSQL: Version 9.4 is recommended. The minimum supported version is 9.3.
- Linux: Evergreen 2.12 has been tested on Debian Jessie (8.0), Debian Wheezy (7.0), Ubuntu Xenial Xerus (16.04), and Ubuntu Trusty Tahr (14.04). If you are running an older version of these distributions, you may want to upgrade before upgrading Evergreen. For instructions on upgrading these distributions, visit the Debian or Ubuntu websites.
- OpenSRF: The minimum supported version of OpenSRF is 2.5.0.

Evergreen has a number of prerequisite packages that must be installed before you can successfully configure, compile, and install Evergreen.

1. Begin by installing the most recent version of OpenSRF (2.5.0 or later). You can download OpenSRF releases from <http://evergreen-ils.org/opensrf-downloads/>
2. On some distributions, it is necessary to install PostgreSQL 9.4+ from external repositories.
 - Debian (Wheezy) and Ubuntu (Trusty) comes with older versions of PostgreSQL, so steps are taken to automatically utilize the PostgreSQL community's apt sources. (For complete details, see: <https://wiki.postgresql.org/wiki/Apt>)
 - Debian (Jessie) and Ubuntu (Xenial) comes with PostgreSQL 9.4+, so no additional steps are required.
3. Issue the following commands as the root Linux account to install prerequisites using the **Makefile.install** prerequisite installer, substituting **debian-jessie**, **debian-wheezy**, **ubuntu-xenial**, or **ubuntu-trusty** for <osname> below:

```
make -f Open-ILS/src/extras/Makefile.install <osname>
```

4. Add the libdbi-libdbd libraries to the system dynamic library path by issuing the following commands as the root Linux account:



You should skip this step if installing on Ubuntu Trusty, Ubuntu Xenial or Debian Jessie. The Ubuntu and Debian Jessie targets use libdbd-pgsql from packages.

Debian Wheezy.

```
echo "/usr/local/lib/dbd" > /etc/ld.so.conf.d/eg.conf  
ldconfig
```

5. OPTIONAL: Developer additions

To perform certain developer tasks from a Git source code checkout, additional packages may be required. As the root Linux account:

- To install packages needed for retrieving and managing web dependencies, use the <osname>-developer Makefile.install target. Currently, this is only needed for building and installing the (preview) browser staff client.


```
make -f Open-ILS/src/extras/Makefile.install <osname>-developer
```

- To install packages required for building Evergreen translations, use the <osname>-translator Makefile.install target.

```
make -f Open-ILS/src/extras/Makefile.install <osname>-translator
```

- To install packages required for building Evergreen release bundles, use the <osname>-packager Makefile.install target.

```
make -f Open-ILS/src/extras/Makefile.install <osname>-packager
```

Optional: Extra steps for web staff client



Skip this entire section if you are using an official release tarball downloaded from <http://evergreen-ils.org/downloads>

Install dependencies for web staff client



You may skip this section if you are installing on either Debian Jessie, Ubuntu Trusty, or Ubuntu Xenial and you have installed the previously described Optional: Developer Additions. You will still need to do the following steps in [Install files for web staff client](#).

1. Install the long-term stability (LTS) release of [Node.js](#). Add the Node.js **/bin** directory to your environment variable **PATH**.

2. Install Grunt CLI

```
% sudo npm install -g grunt-cli
```

3. Install Bower

```
% sudo npm install -g bower
```

Install files for web staff client

1. Building, Testing, Minification: The remaining steps all take place within the staff JS web root:

```
cd $EVERGREEN_ROOT/Open-ILS/web/js/ui/default/staff/
```

2. Install Project-local Dependencies. npm inspects the package.json file for dependencies and fetches them from the Node package network.

```
npm install # fetch Grunt dependencies
bower install # fetch JS dependencies
```

3. Run the build script.

```
# build, run tests, concat+minify
grunt all
```

Configuration and compilation instructions

For the time being, we are still installing everything in the `/openils/` directory. From the Evergreen source directory, issue the following commands as the user Linux account to configure and build Evergreen:

```
PATH=/openils/bin:$PATH ./configure --prefix=/openils --sysconfdir=/openils/conf
make
```

These instructions assume that you have also installed OpenSRF under `/openils/`. If not, please adjust `PATH` as needed so that the Evergreen `configure` script can find `osrf_config`.

Installation instructions

1. Once you have configured and compiled Evergreen, issue the following command as the root Linux account to install Evergreen, build the server portion of the staff client, and copy example configuration files to `/openils/conf`. Change the value of the `STAFF_CLIENT_STAMP_ID` variable to match the version of the staff client that you will use to connect to the Evergreen server.

```
make STAFF_CLIENT_STAMP_ID=rel_name install
```

2. The server portion of the staff client expects `http://hostname/xul/server` to resolve. Issue the following commands as the root Linux account to create a symbolic link pointing to the `server` subdirectory of the server portion of the staff client that we just built using the staff client ID `rel_name`:

```
cd /openils/var/web/xul
ln -sf rel_name/server server
```

Change ownership of the Evergreen files

All files in the `/openils/` directory and subdirectories must be owned by the `opensrf` user. Issue the following command as the root Linux account to change the ownership on the files:

```
chown -R opensrf:opensrf /openils
```

Additional Instructions for Developers



Skip this section if you are using an official release tarball downloaded from <http://evergreen-ils.org/egdownloads>

Developers working directly with the source code from the Git repository, rather than an official release tarball, need to install the Dojo Toolkit set of JavaScript libraries. The appropriate version of Dojo is included in Evergreen release tarballs. Developers should install the Dojo 1.3.3 version of Dojo by issuing the following commands as the `opensrf` Linux account:

```
wget http://download.dojotoolkit.org/release-1.3.3/dojo-release-1.3.3.tar.gz
tar -C /openils/var/web/js -xzf dojo-release-1.3.3.tar.gz
cp -r /openils/var/web/js/dojo-release-1.3.3/* /openils/var/web/js/dojo/.
```

Configure the Apache Web server

1. Use the example configuration files in **Open-ILS/examples/apache/** (for Apache versions below 2.4) or **Open-ILS/examples/apache_24/** (for Apache versions 2.4 or greater) to configure your Web server for the Evergreen catalog, staff client, Web services, and administration interfaces. Issue the following commands as the root Linux account:

Debian Wheezy.

```
cp Open-ILS/examples/apache/eg.conf /etc/apache2/sites-available/  
cp Open-ILS/examples/apache/eg_vhost.conf /etc/apache2/  
cp Open-ILS/examples/apache/eg_startup /etc/apache2/  
# Now set up SSL  
mkdir /etc/apache2/ssl  
cd /etc/apache2/ssl
```

Ubuntu Trusty, Ubuntu Xenial, and Debian Jessie.

```
cp Open-ILS/examples/apache_24/eg_24.conf /etc/apache2/sites-available/eg.conf  
cp Open-ILS/examples/apache_24/eg_vhost_24.conf /etc/apache2/eg_vhost.conf  
cp Open-ILS/examples/apache/eg_startup /etc/apache2/  
# Now set up SSL  
mkdir /etc/apache2/ssl  
cd /etc/apache2/ssl
```

2. The **openssl** command cuts a new SSL key for your Apache server. For a production server, you should purchase a signed SSL certificate, but you can just use a self-signed certificate and accept the warnings in the staff client and browser during testing and development. Create an SSL key for the Apache server by issuing the following command as the root Linux account:

```
openssl req -new -x509 -days 365 -nodes -out server.crt -keyout server.key
```

3. As the root Linux account, edit the **eg.conf** file that you copied into place.
 - a. To enable access to the offline upload / execute interface from any workstation on any network, make the following change (and note that you must secure this for a production instance):
 - (Apache 2.2): Replace **Allow from 10.0.0.0/8** with **Allow from all**
 - (Apache 2.4): Replace **Require host 10.0.0.0/8** with **Require all granted**
4. Change the user for the Apache server.
 - (Debian and Ubuntu): As the root Linux account, edit **/etc/apache2/envvars**. Change **export APACHE_RUN_USER=www-data** to **export APACHE_RUN_USER=opensrf**.
5. As the root Linux account, configure Apache with KeepAlive settings appropriate for Evergreen. Higher values can improve the performance of a single client by allowing multiple requests to be sent over the same TCP connection, but increase the risk of using up all available Apache child processes and memory.
 - (Debian and Ubuntu): Edit **/etc/apache2/apache2.conf**.
 - a. Change **KeepAliveTimeout** to **1**.
 - b. Change **MaxKeepAliveRequests** to **100**.

6. As the root Linux account, configure the prefork module to start and keep enough Apache servers available to provide quick responses to clients without running out of memory. The following settings are a good starting point for a site that exposes the default Evergreen catalogue to the web:

Debian Wheezy (`/etc/apache2/apache2.conf`).

```
<IfModule mpm_prefork_module>
  StartServers      15
  MinSpareServers   5
  MaxSpareServers   15
  MaxClients        75
  MaxRequestsPerChild 500
</IfModule>
```

Ubuntu Trusty, Ubuntu Xenial, Debian Jessie (`/etc/apache2/mods-available/mpm_prefork.conf`).

```
<IfModule mpm_prefork_module>
  StartServers      15
  MinSpareServers   5
  MaxSpareServers   15
  MaxRequestWorkers 75
  MaxConnectionsPerChild 500
</IfModule>
```

7. (Ubuntu Trusty, Ubuntu Xenial, Debian Jessie) As the root user, enable the `mpm_prefork` module:

```
a2dismod mpm_event
a2enmod mpm_prefork
```

8. (Debian Wheezy): As the root Linux account, enable the Evergreen site:

```
a2dissite default # OPTIONAL: disable the default site (the "It Works" page)
a2ensite eg.conf
```

(Ubuntu Trusty, Ubuntu Xenial, Debian Jessie):

```
a2dissite 000-default # OPTIONAL: disable the default site (the "It Works" page)
a2ensite eg.conf
```

9. (Debian and Ubuntu): As the root Linux account, enable Apache to write to the lock directory; this is currently necessary because Apache is running as the `opensrf` user:

```
chown opensrf /var/lock/apache2
```

Learn more about additional Apache options in the following sections:

- [Apache Rewrite Tricks](#)
- [Apache Access Handler Perl Module](#)

Configure OpenSRF for the Evergreen application

There are a number of example OpenSRF configuration files in `/openils/conf/` that you can use as a template for your Evergreen installation. Issue the following commands as the `opensrf` Linux account:

```
cp -b /openils/conf/opensrf_core.xml.example /openils/conf/opensrf_core.xml
cp -b /openils/conf/opensrf.xml.example /openils/conf/opensrf.xml
```

When you installed OpenSRF, you created four Jabber users on two separate domains and edited the `opensrf_core.xml` file accordingly. Please refer back to the OpenSRF README and, as the `opensrf` Linux account, edit the Evergreen version of the `opensrf_core.xml` file using the same Jabber users and domains as you used while installing and testing OpenSRF.



The `-b` flag tells the `cp` command to create a backup version of the destination file. The backup version of the destination file has a tilde (~) appended to the file name, so if you have forgotten the Jabber users and domains, you can retrieve the settings from the backup version of the files.

`eg_db_config`, described in [Creating the Evergreen database](#), sets the database connection information in `opensrf.xml` for you.

Configure action triggers for the Evergreen application

Action Triggers provide hooks for the system to perform actions when a given event occurs; for example, to generate reminder or overdue notices, the `checkout.due` hook is processed and events are triggered for potential actions if there is no checkin time.

To enable the default set of hooks, issue the following command as the `opensrf` Linux account:

```
cp -b /openils/conf/action_trigger_filters.json.example /openils/conf/action_trigger_filters.json
```

For more information about configuring and using action triggers, see [Notifications / Action Triggers](#).

Creating the Evergreen database

Setting up the PostgreSQL server

For production use, most libraries install the PostgreSQL database server on a dedicated machine. Therefore, by default, the `Makefile.install` prerequisite installer does not install the PostgreSQL 9 database server that is required by every Evergreen system. You can install the packages required by Debian or Ubuntu on the machine of your choice using the following commands as the root Linux account:

(Debian / Ubuntu) Installing PostgreSQL server packages. Each OS build target provides the postgres server installation packages required for each operating system. To install Postgres server packages, use the make target `postgres-server-<OSTYPE>`. Choose the most appropriate command below based on your operating system.

```
make -f Open-ILS/src/extras/Makefile.install postgres-server-debian-jessie
make -f Open-ILS/src/extras/Makefile.install postgres-server-debian-wheezy
make -f Open-ILS/src/extras/Makefile.install postgres-server-ubuntu-trusty
make -f Open-ILS/src/extras/Makefile.install postgres-server-ubuntu-xenial
```

For a standalone PostgreSQL server, install the following Perl modules for your distribution as the root Linux account:

(Debian Wheezy, Ubuntu Trusty, and Ubuntu Xenial). No extra modules required for these distributions.

You need to create a PostgreSQL superuser to create and access the database. Issue the following command as the postgres Linux account to create a new PostgreSQL superuser named **evergreen**. When prompted, enter the new user's password:

```
createuser -s -P evergreen
```

Enabling connections to the PostgreSQL database. Your PostgreSQL database may be configured by default to prevent connections, for example, it might reject attempts to connect via TCP/IP or from other servers. To enable TCP/IP connections from localhost, check your **pg_hba.conf** file, found in the **/etc/postgresql/** directory on Debian and Ubuntu. A simple way to enable TCP/IP connections from localhost to all databases with password authentication, which would be suitable for a test install of Evergreen on a single server, is to ensure the file contains the following entries before any "host ... ident" entries:

```
host    all             all             ::1/128         md5
host    all             all             127.0.0.1/32   md5
```

When you change the **pg_hba.conf** file, you will need to reload PostgreSQL to make the changes take effect. For more information on configuring connectivity to PostgreSQL, see <http://www.postgresql.org/docs/devel/static/auth-pg-hba-conf.html>

Creating the Evergreen database and schema

Once you have created the evergreen PostgreSQL account, you also need to create the database and schema, and configure your configuration files to point at the database server. Issue the following command as the root Linux account from inside the Evergreen source directory, replacing **<user>**, **<password>**, **<hostname>**, **<port>**, and **<dbname>** with the appropriate values for your PostgreSQL database (where **<user>** and **<password>** are for the evergreen PostgreSQL account you just created), and replace **<admin-user>** and **<admin-pass>** with the values you want for the egadmin Evergreen administrator account:

```
perl Open-ILS/src/support-scripts/eg_db_config --update-config \  
  --service all --create-database --create-schema --create-offline \  
  --user <user> --password <password> --hostname <hostname> --port <port> \  
  --database <dbname> --admin-user <admin-user> --admin-pass <admin-pass>
```

This creates the database and schema and configures all of the services in your **/openils/conf/opensrf.xml** configuration file to point to that database. It also creates the configuration files required by the Evergreen **cgi-bin** administration scripts, and sets the user name and password for the egadmin Evergreen administrator account to your requested values.

You can get a complete set of options for **eg_db_config** by passing the **--help** parameter.

Loading sample data

If you add the **--load-all-sample** parameter to the **eg_db_config** command, a set of authority and bibliographic records, call numbers, copies, staff and regular users, and transactions will be loaded into your target database. This sample dataset is commonly referred to as the concerto sample data, and can be useful for testing out Evergreen functionality and for creating problem reports that developers can easily recreate with their own copy of the concerto sample data.

Creating the database on a remote server

In a production instance of Evergreen, your PostgreSQL server should be installed on a dedicated server.

PostgreSQL 9.4 and later

To create the database instance on a remote database server running PostgreSQL 9.4 or later, simply use the `--create-database` flag on `eg_db_config`.

Starting Evergreen

1. As the root Linux account, start the `memcached` and `ejabberd` services (if they aren't already running):

```
/etc/init.d/ejabberd start
/etc/init.d/memcached start
```

2. As the `opensrf` Linux account, start Evergreen. The `-l` flag in the following command is only necessary if you want to force Evergreen to treat the hostname as `localhost`; if you configured `opensrf.xml` using the real hostname of your machine as returned by `perl -ENet::Domain 'print Net::Domain::hostfqdn() . "\n";'`, you should not use the `-l` flag.

```
osrf_control -l --start-all
```

- If you receive the error message `bash: osrf_control: command not found`, then your environment variable `PATH` does not include the `/openils/bin` directory; this should have been set in the `opensrf` Linux account's `.bashrc` configuration file. To manually set the `PATH` variable, edit the configuration file `~/.bashrc` as the `opensrf` Linux account and add the following line:

```
export PATH=$PATH:/openils/bin
```

3. As the `opensrf` Linux account, generate the Web files needed by the staff client and catalogue and update the organization unit proximity (you need to do this the first time you start Evergreen, and after that each time you change the library org unit configuration.):

```
autogen.sh
```

4. As the root Linux account, restart the Apache Web server:

```
/etc/init.d/apache2 restart
```

If the Apache Web server was running when you started the OpenSRF services, you might not be able to successfully log in to the OPAC or staff client until the Apache Web server is restarted.

Testing connections to Evergreen

Once you have installed and started Evergreen, test your connection to Evergreen via `srfs`. As the `opensrf` Linux account, issue the following commands to start `srfs` and try to log onto the Evergreen server using the `egadmin` Evergreen administrator user name and password that you set using the `eg_db_config` command:

```
/openils/bin/srfs
```

```
srfsh% login <admin-user> <admin-pass>
```

You should see a result like:

```
Received Data: "250bf1518c7527a03249858687714376"
```

```
-----  
Request Completed Successfully  
Request Time in seconds: 0.045286  
-----
```

```
Received Data: {  
  "ilsevent":0,  
  "textcode":"SUCCESS",  
  "desc":" ",  
  "pid":21616,  
  "stacktrace":"oils_auth.c:304",  
  "payload":{  
    "authtoken":"e5f9827cc0f93b503a1cc66bee6bdd1a",  
    "authtime":420  
  }  
}
```

```
}
```

```
-----  
Request Completed Successfully  
Request Time in seconds: 1.336568  
-----
```

If this does not work, it's time to do some troubleshooting.

- As the opensrf Linux account, run the **settings-tester.pl** script to see if it finds any system configuration problems. The script is found at **Open-ILS/src/support-scripts/settings-tester.pl** in the Evergreen source tree.
- Follow the steps in the [troubleshooting guide](#).
- If you have faithfully followed the entire set of installation steps listed here, you are probably extremely close to a working system. Gather your configuration files and log files and contact the [Evergreen development mailing list](#) for assistance before making any drastic changes to your system configuration.

Getting help

Need help installing or using Evergreen? Join the mailing lists at <http://evergreen-ils.org/communicate/mailling-lists/> or contact us on the Freenode IRC network on the [#evergreen](#) channel.

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Chapter 21. Upgrading the Evergreen Server

Before upgrading, it is important to carefully plan an upgrade strategy to minimize system downtime and service interruptions. All of the steps in this chapter are to be completed from the command line.

Software Prerequisites

- PostgreSQL: Version 9.4 is recommended. The minimum supported version is 9.3.
- Linux: Evergreen 2.12.12 has been tested on Debian Jessie (8.0), Debian Wheezy (7.0), Ubuntu Xenial Xerus (16.04), and Ubuntu Trusty Tahr (14.04). If you are running an older version of these distributions, you may want to upgrade before upgrading Evergreen. For instructions on upgrading these distributions, visit the Debian or Ubuntu websites.
- OpenSRF: The minimum supported version of OpenSRF is 2.5.0.

In the following instructions, you are asked to perform certain steps as either the root or opensrf user.

- Debian: To become the root user, issue the **su** command and enter the password of the root user.
- Ubuntu: To become the root user, issue the **sudo su** command and enter the password of your current user.

To switch from the root user to a different user, issue the **su - [user]** command; for example, **su - opensrf**. Once you have become a non-root user, to become the root user again simply issue the **exit** command.

Upgrade the Evergreen code

The following steps guide you through a simplistic upgrade of a production server. You must adjust these steps to accommodate your customizations such as catalogue skins.

1. Stop Evergreen and back up your data:

- a. As root, stop the Apache web server.
- b. As the opensrf user, stop all Evergreen and OpenSRF services:

```
osrf_control --localhost --stop-all
```

- c. Back up the /openils directory.

2. Upgrade OpenSRF. Download and install the latest version of OpenSRF from the [OpenSRF download page](#).

3. As the opensrf user, download and extract Evergreen 2.12.12:

```
wget https://evergreen-ils.org/downloads/Evergreen-ILS-2.12.12.tar.gz
tar xzf Evergreen-ILS-2.12.12.tar.gz
```



For the latest edition of Evergreen, check the [Evergreen download page](#) and adjust upgrading instructions accordingly.

4. As the root user, install the prerequisites:

```
cd /home/opensrf/Evergreen-ILS-2.12.12
```

On the next command, replace **[distribution]** with one of these values for your distribution of Debian or Ubuntu:

- **debian-jessie** for Debian Jessie (8.0) (See [Bug 134222](#) if you want to use EDI)
- **debian-wheezy** for Debian Wheezy (7.0)
- **ubuntu-xenial** for Ubuntu Xenial Xerus (16.04) (EDI compatibility in progress)
- **ubuntu-trusty** for Ubuntu Trusty Tahr (14.04) (See [Bug 134222](#) if you want to use EDI)

```
make -f Open-ILS/src/extras/Makefile.install [distribution]
```

5. As the opensrf user, configure and compile Evergreen:

```
cd /home/opensrf/Evergreen-ILS-2.12.12
PATH=/openils/bin:$PATH ./configure --prefix=/openils --sysconfdir=/openils/conf
make
```

These instructions assume that you have also installed OpenSRF under `/openils/`. If not, please adjust `PATH` as needed so that the Evergreen configure script can find `osrf_config`.

6. As the root user, install Evergreen:

```
cd /home/opensrf/Evergreen-ILS-2.12.12
make STAFF_CLIENT_STAMP_ID=rel_2_12_12 install
```

7. As the root user, change all files to be owned by the opensrf user and group:

```
chown -R opensrf:opensrf /openils
```

8. As the opensrf user, update the server symlink in `/openils/var/web/xul/`:

```
cd /openils/var/web/xul/
rm server
ln -sf rel_2_12_12/server server
```

9. As the opensrf user, update `opensrf_core.xml` and `opensrf.xml` by copying the new example files (`/openils/conf/opensrf_core.xml.example` and `/openils/conf/opensrf.xml`). The `-b` option creates a backup copy of the old file.

```
cp -b /openils/conf/opensrf_core.xml.example /openils/conf/opensrf_core.xml
cp -b /openils/conf/opensrf.xml.example /openils/conf/opensrf.xml
```



Copying these configuration files will remove any customizations you have made to them. Remember to redo your customizations after copying them.

10As the opensrf user, update the configuration files:

```
cd /home/opensrf/Evergreen-ILS-2.12.12
perl Open-ILS/src/support-scripts/eg_db_config --update-config --service all \
--create-offline --database evergreen --host localhost --user evergreen --password evergreen
```

11As the root user, update the Apache files:

Use the example configuration files in **Open-ILS/examples/apache/** (for Apache versions below 2.4) or **Open-ILS/examples/apache_24/** (for Apache versions 2.4 or greater) to configure your Web server for the Evergreen catalog, staff client, Web services, and administration interfaces. Issue the following commands as the root Linux account:



Copying these Apache configuration files will remove any customizations you have made to them. Remember to redo your customizations after copying them. For example, if you purchased an SSL certificate, you will need to edit eg.conf to point to the appropriate SSL certificate files. The diff command can be used to show the differences between the distribution version and your customized version. **diff <customized file> <dist file>**

a. Update `/etc/apache2/eg_startup` by copying the example from `Open-ILS/examples/apache/eg_startup`.

```
cp /home/opensrf/Evergreen-ILS-2.12.12/Open-ILS/examples/apache/eg_startup /etc/apache2/eg_startup
```

b. Update `/etc/apache2/eg_vhost.conf` by copying the example from `Open-ILS/examples/apache/eg_vhost.conf`.

```
cp /home/opensrf/Evergreen-ILS-2.12.12/Open-ILS/examples/apache/eg_vhost.conf /etc/apache2/eg_vhost.conf
```

c. Update `/etc/apache2/sites-available/eg.conf` by copying the example from `Open-ILS/examples/apache/eg.conf`.

```
cp /home/opensrf/Evergreen-ILS-2.12.12/Open-ILS/examples/apache/eg.conf /etc/apache2/sites-available/eg.conf
```

Upgrade the Evergreen database schema

The upgrade of the Evergreen database schema is the lengthiest part of the upgrade process for sites with a significant amount of production data.

Before running the upgrade script against your production Evergreen database, back up your database, restore it to a test server, and run the upgrade script against the test server. This enables you to determine how long the upgrade will take and whether any local customizations present problems for the stock upgrade script that require further tailoring of the upgrade script. The backup also enables you to cleanly restore your production data if anything goes wrong during the upgrade.



Evergreen provides incremental upgrade scripts that allow you to upgrade from one minor version to the next until you have the current version of the schema. For example, if you want to upgrade from 2.5.1 to 2.12.0, you would run the following upgrade scripts:

- 2.5.1-2.5.2-upgrade-db.sql
- 2.5.2-2.5.3-upgrade-db.sql
- 2.5.3-2.6.0-upgrade-db.sql (this is a major version upgrade)
- 2.6.2-2.6.3-upgrade-db.sql
- 2.6.3-2.7.0-upgrade-db.sql (this is a major version upgrade)
- 2.7.0-2.7.1-upgrade-db.sql
- 2.7.1-2.7.2-upgrade-db.sql
- 2.7.2-2.7.3-upgrade-db.sql
- 2.7.3-2.7.4-upgrade-db.sql
- 2.7.4-2.8.0-upgrade-db.sql (this is a major version upgrade)
- 2.8.0-2.8.1-upgrade-db.sql
- 2.8.1-2.8.2-upgrade-db.sql
- 2.8.2-2.8.3-upgrade-db.sql
- 2.8.3-2.8.4-upgrade-db.sql
- 2.8.4-2.9.0-upgrade-db.sql (this is a major version upgrade)
- 2.9.0-2.9.1-upgrade-db.sql
- 2.9.1-2.9.2-upgrade-db.sql
- 2.9.2-2.9.3-upgrade-db.sql
- 2.9.3-2.10.0-upgrade-db.sql
- 2.10.0-2.10.1-upgrade-db.sql
- 2.10.1-2.10.2-upgrade-db.sql
- 2.10.2-2.10.3-upgrade-db.sql
- 2.10.3-2.10.4-upgrade-db.sql

- 2.10.4-2.10.5-upgrade-db.sql
- 2.10.5-2.10.6-upgrade-db.sql
- 2.10.6-2.10.7-upgrade-db.sql
- 2.10.7-2.11.0-upgrade-db.sql (this is a major version upgrade)
- 2.11.0-2.11.1-upgrade-db.sql
- 2.11.1-2.11.2-upgrade-db.sql
- 2.11.2-2.11.3-upgrade-db.sql
- 2.11.3-2.12.0-upgrade-db.sql (this is a major version upgrade)
- 2.12.0-2.12.1-upgrade-db.sql
- 2.12.1-2.12.2-upgrade-db.sql
- 2.12.2-2.12.3-upgrade-db.sql
- 2.12.3-2.12.4-upgrade-db.sql
- 2.12.4-2.12.5-upgrade-db.sql
- 2.12.5-2.12.6-upgrade-db.sql
- 2.12.6-2.12.7-upgrade-db.sql
- 2.12.7-2.12.8-upgrade-db.sql
- 2.12.8-2.12.9-upgrade-db.sql
- 2.12.9-2.12.10-upgrade-db.sql
- 2.12.10-2.12.11-upgrade-db.sql
- 2.12.11-2.12.12-upgrade-db.sql

Note that you do not want to run additional 2.5 scripts to upgrade to the newest version of 2.5, since currently there is no automated way to upgrade from 2.5.4+ to 2.6. Only upgrade as far as necessary to reach the major version upgrade script (in this example, as far as 2.5.3).

To upgrade across multiple major versions (e.g. from 2.3.0 to 2.12.12), use the same logic to utilize the provided major version upgrade scripts. For example:

- 2.3-2.4.0-upgrade-db.sql
- 2.3-2.4-supplemental.sh
- (run all incremental scripts from 2.4.0 to 2.4.3)
- 2.4.3-2.5.0-upgrade-db.sql
- (run all incremental scripts from 2.5.0 to 2.5.3)

- 2.5.3-2.6.0-upgrade-db.sql
- (run all incremental scripts from 2.6.0 to 2.6.3)
- 2.6.3-2.7.0-upgrade-db.sql
- (run all incremental scripts from 2.7.0 to 2.7.4)
- 2.7.4-2.8.0-upgrade-db.sql
- (run all incremental scripts from 2.8.0 to 2.8.4)
- 2.8.4-2.9.0-upgrade-db.sql
- (run all incremental scripts from 2.9.0 to 2.9.3)
- 2.9.3-2.10.0-upgrade-db.sql
- (run all incremental scripts from 2.10.0 to 2.10.7)
- 2.10.7-2.11.0-upgrade-db.sql
- (run all incremental scripts from 2.11.0 to 2.11.3)
- 2.11.3-2.12.0-upgrade-db.sql
- (run all incremental scripts from 2.12.0 to 2.12.12)



Pay attention to error output as you run the upgrade scripts. If you encounter errors that you cannot resolve yourself through additional troubleshooting, please report the errors to the [Evergreen Technical Discussion List](#).

Run the following steps (including other upgrade scripts, as noted above) as a user with the ability to connect to the database server.

```
cd /home/opensrf/Evergreen-ILS-2.12.12/Open-ILS/src/sql/Pg
psql -U evergreen -h localhost -f version-upgrade/2.12.11-2.12.12-upgrade-db.sql evergreen
```



After the some database upgrade scripts finish, you may see a note on how to reingest your bib records. You may run this after you have completed the entire upgrade and tested your system. Reingesting records may take a long time depending on the number of bib records in your system.

Restart Evergreen and Test

1. As the root user, restart memcached to clear out all old user sessions.

```
service memcached restart
```

2. As the opensrf user, start all Evergreen and OpenSRF services:

```
osrf_control --localhost --start-all
```

3. As the opensrf user, run autogen to refresh the static organizational data files:

```
cd /openils/bin
./autogen.sh
```

4. Start srfsh and try logging in using your Evergreen username and password:

```
/openils/bin/srfsh
srfsh% login username password
```

You should see a result like:

```
Received Data: "250bf1518c7527a03249858687714376"
```

```
-----
Request Completed Successfully
Request Time in seconds: 0.045286
-----
```

```
Received Data: {
  "ilsevent":0,
  "textcode":"SUCCESS",
  "desc":" ",
  "pid":21616,
  "stacktrace":"oils_auth.c:304",
  "payload":{
    "authtoken":"e5f9827cc0f93b503a1cc66bee6bdd1a",
    "authtime":420
  }
}
```

```
}
```

```
-----
Request Completed Successfully
Request Time in seconds: 1.336568
-----
```

If this does not work, it's time to do some [troubleshooting](#).

5. As the root user, start the Apache web server.

If you encounter errors, refer to the [troubleshooting](#) section of this documentation for tips on finding solutions and seeking further assistance from the Evergreen community.

Review Release Notes

Review the [2.12 release notes](#) for other tasks that need to be done after upgrading. If you have upgraded over several major versions, you will need to review the release notes for each version also.

Chapter 22. Setting Up EDI Acquisitions

Introduction

Electronic Data Interchange (EDI) is used to exchange information between participating vendors and Evergreen. This chapter contains technical information for installation and configuration of the components necessary to run EDI Acquisitions for Evergreen.

Installation

Install EDI Translator

The EDI Translator is used to convert data into EDI format. It runs on localhost and listens on port 9191 by default. This is controlled via the `edi_webrick.cnf` file located in the `edi_translator` directory. It should not be necessary to edit this configuration if you install EDI Translator on the same server used for running Action/Triggers events.



If you are running Evergreen with a multi-server configuration, make sure to install EDI Translator on the same server used for Action/Trigger event generation.

Steps for Installing

1. As the `opensrf` user, copy the EDI Translator code found in `Open-ILS/src/edi_translator` to somewhere accessible (for example, `/openils/var/edi`):

```
cp -r Open-ILS/src/edi_translator /openils/var/edi
```

2. Navigate to where you have saved the code to begin next step:

```
cd /openils/var/edi
```

3. Next, as the root user (or a user with `sudo` rights), install the dependencies, via `"install.sh"`. This will perform some `apt-get` routines to install the code needed for the EDI translator to function. (Note: `subversion` must be installed first)

```
./install.sh
```

4. Now, we're ready to start `"edi_webrick.bash"` which is the script that calls the "Ruby" code to translate EDI. This script needs to be started in order for EDI to function so please take appropriate measures to ensure this starts following reboots/upgrades/etc. As the `opensrf` user:

```
./edi_webrick.bash
```

5. You can check to see if EDI translator is running.

- Using the command `"ps aux | grep edi"` should show you something similar if the script is running properly:

```
root    30349  0.8  0.1 52620 10824 pts/0    S      13:04   0:00 ruby ./edi_webrick.rb
```


- To shutdown EDI Translator you can use something like pkill (assuming no other ruby processes are running on that server):

```
kill -INT $(pgrep ruby)
```

Install EDI Scripts

The EDI scripts are "edi_pusher.pl" and "edi_fetcher.pl" and are used to "push" and "fetch" EDI messages for configured EDI accounts.

1. As the opensrf user, copy edi_pusher.pl and edi_fetcher.pl from Open-ILS/src/support-scripts into /openils/bin:

```
cp Open-ILS/src/support-scripts/edi_pusher.pl /openils/bin
cp Open-ILS/src/support-scripts/edi_fetcher.pl /openils/bin
```

2. Setup the edi_pusher.pl and edi_fetcher.pl scripts to run as cron jobs in order to regularly push and receive EDI messages.

- Add to the opensrf user's crontab the following entries:

```
10 * * * * cd /openils/bin && /usr/bin/perl ./edi_pusher.pl > /dev/null
0 1 * * * cd /openils/bin && /usr/bin/perl ./edi_fetcher.pl > /dev/null
```

- The example for edi_pusher.pl sets the script to run at 10 minutes past the hour, every hour.
- The example for edi_fetcher.pl sets the script to run at 1 AM every night.



You may choose to run the EDI scripts more or less frequently based on the necessary response times from your vendors.

Configuration

Configuring Providers

Look in Admin > Server Administration > Acquisitions > Providers

Column	Description/Notes
Provider Name	A unique name to identify the provider
Code	A unique code to identify the provider
Owner	The org unit who will "own" the provider.
Currency	The currency format the provider accepts
Active	Whether or not the Provider is "active" for use
Default Claim Policy	??
EDI Default	The default "EDI Account" to use (see EDI Accounts Configuration)
Email	The email address for the provider

Column	Description/Notes
Fax Phone	A fax number for the provider
Holdings Tag	The holdings tag to be utilized (usually 852, for Evergreen)
Phone	A phone number for the provider
Prepayment Required	Whether or not prepayment is required
SAN	The vendor provided, org unit specific SAN code
URL	The vendor website

Configuring EDI Accounts

Look in Admin > Server Administration > Acquisitions > EDI Accounts

Column	Description/Notes
Label	A unique name to identify the provider
Host	FTP/SFTP/SSH hostname - vendor assigned
Username	FTP/SFTP/SSH username - vendor assigned
Password	FTP/SFTP/SSH password - vendor assigned
Account	Vendor assigned account number associated with your organization
Owner	The organizational unit who owns the EDI account
Last Activity	The date of last activity for the account
Provider	This is a link to one of the "codes" in the "Providers" interface
Path	The path on the vendor's server where Evergreen will send it's outgoing .epo files
Incoming Directory	The path on the vendor's server where "incoming" .epo files are stored
Vendor Account Number	Vendor assigned account number.
Vendor Assigned Code	Usually a sub-account designation. Can be used with or without the Vendor Account Number.

Configuring Organizational Unit SAN code

Look in Admin > Server Settings > Organizational Units

This interface allows a library to configure their SAN, alongside their address, phone, etc.

Troubleshooting

PO JEDI Template Issues

Some libraries may run into issues with the action/trigger (PO JEDI). The template has to be modified to handle different vendor codes that may be used. For instance, if you use "ingra" instead of

INGRAM this may cause a problem because they are hardcoded in the template. The following is an example of one modification that seems to work.

Original template has:

```
"buyer":[
  [% IF target.provider.edi_default.vendcode && (target.provider.code == 'BT' ||
target.provider.name.match('(?!i)^BAKER & TAYLOR')) -%]
  {"id-qualifier": 91, "id":["% target.ordering_agency.mailing_address.san _ ' ' _
target.provider.edi_default.vendcode %]"}
  [%- ELIF target.provider.edi_default.vendcode && target.provider.code == 'INGRAM' -%]
  {"id":["% target.ordering_agency.mailing_address.san %]"},
  {"id-qualifier": 91, "id":["% target.provider.edi_default.vendcode %]"}
  [%- ELSE -%]
  {"id":["% target.ordering_agency.mailing_address.san %]"}
  [%- END -%]
],
```

Modified template has the following where it matches on provider SAN instead of code:

```
"buyer":[
  [% IF target.provider.edi_default.vendcode && (target.provider.san == '1556150') -%]
  {"id-qualifier": 91, "id":["% target.ordering_agency.mailing_address.san _ ' ' _
target.provider.edi_default.vendcode %]"}
  {"id-qualifier": 91, "id":["% target.ordering_agency.mailing_address.san _ ' ' _
target.provider.edi_default.vendcode %]"}
  [%- ELIF target.provider.edi_default.vendcode && (target.provider.san == '1697978') -%]
  {"id":["% target.ordering_agency.mailing_address.san %]"},
  {"id-qualifier": 91, "id":["% target.provider.edi_default.vendcode %]"}
  [%- ELSE -%]
  {"id":["% target.ordering_agency.mailing_address.san %]"}
  [%- END -%]
],
```

Part IV. System Configuration and Customization

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Chapter 23. Introduction

The Evergreen system allows a free range of customizations to every aspect of the system. Use this part of the documentation to become familiar with the tools for configuring the system as well as customizing the catalog and staff client.

Chapter 24. Describing your organization

Your Evergreen system is almost ready to go. You'll need to add each of the libraries that will be using your Evergreen system. If you're doing this for a consortium, you'll have to add your consortium as a whole, and all the libraries and branches that are members of the consortium. In this chapter, we'll talk about how to get the Evergreen system to see all your libraries, how to set each one up, and how to edit all the details of each one.

Organization Unit Types

The term Organization Unit Types refers to levels in the hierarchy of your library system(s). Examples could include: All-Encompassing Consortium, Library System, Branch, Bookmobile, Sub-Branch, etc.

You can add or remove organizational unit types, and rename them as needed to match the organizational hierarchy that matches the libraries using your installation of Evergreen. Organizational unit types should never have proper names since they are only generic types.

When working with configuration, settings, and permissions, it is very important to be careful of the Organization Unit Context Location - this is the organizational unit to which the configuration settings are being applied. If, for example, a setting is applied at the Consortium context location, all child units will inherit that setting. If a specific branch location is selected, only that branch and its child units will have the setting applied. The levels of the hierarchy to which settings can be applied are often referred to in terms of "depth" in various configuration interfaces. In a typical hierarchy, the consortium has a depth of 0, the system is 1, the branch is 2, and any bookmobiles or sub-branches is 3.

Create and edit Organization Unit Types

1. Open Administration > Server Administration > Organization Types.
2. In the left panel, expand the Organization Unit Types hierarchy.
3. Click on a organization type to edit the existing type or to add a new organization unit.
4. A form opens in the right panel, displaying the data for the selected organization unit.
5. Edit the fields as required and click Save.

To create a new dependent organization unit, click New Child. The new child organization unit will appear in the left panel list below the parent. Highlight the new unit and edit the data as needed, click Save

Organizational Units

Organizational Units are the specific instances of the organization unit types that make up your library's hierarchy. These will have distinctive proper names such as Main Street Branch or Townsville Campus.

Remove or edit default Organizational Units

After installing the Evergreen software, the default CONS, SYS1, BR1, etc., organizational units remain. These must be removed or edited to reflect actual library entities.

Create and edit Organizational Units

1. Open Administration > Server Administration > Organizational Units.
2. In the left panel, expand the the Organizational Units hierarchy, select a unit.
3. A form opens in the right panel, displaying the data for the selected organizational unit.
4. To edit the existing, default organizational unit, enter system or library specific data in the form; complete all three tabs: Main Settings, Hours of Operation, Addresses.
5. Click Save.

To create a new dependent organizational unit, click New Child. The new child will appear in the hierarchy list below the parent unit. Click on the new unit and edit the data, click Save

Organizational Unit data

The Addresses tab allows you to enter library contact information. Library Phone number, email address, and addresses are used in patron email notifications, hold slips, and transit slips. The Library address tab is broken out into four address types: Physical Address, Holds Address, Mailing Address, ILL Address.

The Hours of Operation tab is where you enter regular, weekly hours. Holiday and other closures are set in the Closed Dates Editor. Hours of operation and closed dates impact due dates and fine accrual.

After Changing Organization Unit Data

After you change Org Unit data, you must run the autogen.sh script. This script updates the Evergreen organization tree and fieldmapper IDL. You will get unpredictable results if you don't run this after making changes.

Run this script as the opensrf Linux account.

```
autogen.sh
```

Set closed dates using the Closed Dates Editor

These dates are in addition to your regular weekly closed days (see the section called "Library Hours of Operation"). Both regular closed days and those entered in the Closed Dates Editor affect due dates and fines:

- Due dates. Due dates that would fall on closed days are automatically pushed forward to the next open day. Likewise, if an item is checked out at 8pm, for example, and would normally be due on a day when the library closes before 8pm, Evergreen pushes the due date forward to the next open day.
- Overdue fines. Overdue fines may not be charged on days when the library is closed. This fine behavior depends on how the Charge fines on overdue circulations when closed setting is configured in the Library Settings Editor.

Closed dates do not affect the processing delays for Action/Triggers. For example, if your library has a trigger event that marks items as lost after 30 days, that 30 day period will include both open and closed dates.

Adding a closure

1. Select Administration > Local Administration.
2. Select Closed Dates Editor.
3. Select type of closure: typically Single Day or Multiple Day.
4. Click the Calendar gadget to select the All Day date or starting and ending dates.
5. Enter a Reason for closure (optional).
6. Click Apply to all of my libraries if your organizational unit has children units that will also be closed.
7. Click Save.

Add Single Day Closing
Add Multiple Date Closing
Add Detailed Closing

All Day From

📅
Through

📅

Reason for closing:

Spring break

Apply to all of my libraries

Save
Cancel

Now that your organizational structure is established, you can begin configuring permissions for the staff users of your Evergreen system.

Detailed closure

If your closed dates include a portion of a business day, you should create a detailed closing.

1. Select Administration → Local Administration.
2. Select Closed Dates Editor.
3. Select Add Detailed Closing.
4. Enter applicable dates, times, and a descriptive reason for the closing.
5. Click Save.
6. Check the Apply to all of my libraries box if your library is a multi-branch system and the closing applies to all of your branches.

Chapter 25. Describing your people

Many different members of your staff will use your Evergreen system to perform the wide variety of tasks required of the library.

When the Evergreen installation was completed, a number of permission groups should have been automatically created. These permission groups are:

- Users
- Patrons
- Staff
- Catalogers
- Circulators
- Acquisitions
- Acquisitions Administrator
- Cataloging Administrator
- Circulation Administrator
- Local Administrator
- Serials
- System Administrator
- Global Administrator
- Data Review
- Volunteers

Each of these permission groups has a different set of permissions connected to them that allow them to do different things with the Evergreen system. Some of the permissions are the same between groups; some are different. These permissions are typically tied to one or more working location (sometimes referred to as a working organizational unit or work OU) which affects where a particular user can exercise the permissions they have been granted.

Setting the staff user's working location

To grant a working location to a staff user in the staff client:

1. Search for the patron. Select Search > Search for Patrons from the top menu.
2. When you retrieve the correct patron record, select Other > User Permission Editor from the upper right corner. The permissions associated with this account appear in the right side of the client, with the Working Location list at the top of the screen.

3. The Working Location list displays the Organizational Units in your consortium. Select the check box for each Organization Unit where this user needs working permissions. Clear any other check boxes for Organization Units where the user no longer requires working permissions.
4. Scroll all the way to the bottom of the page and click Save. This user account is now ready to be used at your library.

As you scroll down the page you will come to the Permissions list. These are the permissions that are given through the Permission Group that you assigned to this user. Depending on your own permissions, you may also have the ability to grant individual permissions directly to this user.

Comparing approaches for managing permissions

The Evergreen community uses two different approaches to deal with managing permissions for users:

- Staff Client

Evergreen libraries that are most comfortable using the staff client tend to manage permissions by creating different profiles for each type of user. When you create a new user, the profile you assign to the user determines their basic set of permissions. This approach requires many permission groups that contain overlapping sets of permissions: for example, you might need to create a Student Circulator group and a Student Cataloger group. Then if a new employee needs to perform both of these roles, you need to create a third Student Cataloger / Circulator group representing the set of all of the permissions of the first two groups.

The advantage to this approach is that you can maintain the permissions entirely within the staff client; a drawback to this approach is that it can be challenging to remember to add a new permission to all of the groups. Another drawback of this approach is that the user profile is also used to determine circulation and hold rules, so the complexity of your circulation and hold rules might increase significantly.

- Database Access

Evergreen libraries that are comfortable manipulating the database directly tend to manage permissions by creating permission groups that reflect discrete roles within a library. At the database level, you can make a user belong to many different permission groups, and that can simplify your permission management efforts. For example, if you create a Student Circulator group and a Student Cataloger group, and a new employee needs to perform both of these roles, you can simply assign them to both of the groups; you do not need to create an entirely new permission group in this case. An advantage of this approach is that the user profile can represent only the user's borrowing category and requires only the basic Patrons permissions, which can simplify your circulation and hold rules.

Permissions and profiles are not carved in stone. As the system administrator, you can change them as needed. You may set and alter the permissions for each permission group in line with what your library, or possibly your consortium, defines as the appropriate needs for each function in the library.

Managing permissions in the staff client

In this section, we'll show you in the staff client:

- where to find the available permissions
- where to find the existing permission groups
- how to see the permissions associated with each group
- how to add or remove permissions from a group

We also provide an appendix with a listing of suggested minimum permissions for some essential groups. You can compare the existing permissions with these suggested permissions and, if any are missing, you will know how to add them.

Where to find existing permissions and what they mean

In the staff client, in the upper right corner of the screen, click on Administration > Server Administration > Permissions.

The list of available permissions will appear on screen and you can scroll down through them to see permissions that are already available in your default installation of Evergreen.

There are over 500 permissions in the permission list. They appear in two columns: Code and Description. Code is the name of the permission as it appear in the Evergreen database. Description is a brief note on what the permission allows. All of the most common permissions have easily understandable descriptions.

Where to find existing Permission Groups

In the staff client, in the upper right corner of the screen, navigate to Administration > Server Administration > Permission Groups.

Two panes will open on your screen. The left pane provides a tree view of existing Permission Groups. The right pane contains two tabs: Group Configuration and Group Permissions.

In the left pane, you will find a listing of the existing Permission Groups which were installed by default. Click on the + sign next to any folder to expand the tree and see the groups underneath it. You should see the Permission Groups that were listed at the beginning of this chapter. If you do not and you need them, you will have to create them.

Adding or removing permissions from a Permission Group

First, we will remove a permission from the Staff group.

1. From the list of Permission Groups, click on Staff.
2. In the right pane, click on the Group Permissions tab. You will now see a list of permissions that this group has.

3. From the list, choose `CREATE_CONTAINER`. This will now be highlighted.
4. Click the Delete Selected button. `CREATE_CONTAINER` will be deleted from the list. The system will not ask for a confirmation. If you delete something by accident, you will have to add it back.
5. Click the Save Changes button.

You can select a group of individual items by holding down the Ctrl key and clicking on them. You can select a list of items by clicking on the first item, holding down the Shift key, and clicking on the last item in the list that you want to select.

Now, we will add the permission we just removed back to the Staff group.

1. From the list of Permission Groups, click on Staff.
2. In the right pane, click on the Group Permissions tab.
3. Click on the New Mapping button. The permission mapping dialog box will appear.
4. From the Permission drop down list, choose `CREATE_CONTAINER`.
5. From the Depth drop down list, choose Consortium.
6. Click the checkbox for Grantable.
7. Click the Add Mapping button. The new permission will now appear in the Group Permissions window.
8. Click the Save Changes button.

If you have saved your changes and you don't see them, you may have to click the Reload button in the upper left side of the staff client screen.

Managing role-based permission groups in the staff client

Main permission groups are granted in the staff client through Edit in the patron record using the Main (Profile) Permission Group field. Additional permission groups can be granted using secondary permission groups.

Secondary Group Permissions

The Secondary Groups button functionality enables supplemental permission groups to be added to staff accounts. The `CREATE_USER_GROUP_LINK` and `REMOVE_USER_GROUP_LINK` permissions are required to display and use this feature.

In general when creating a secondary permission group do not grant the permission to login to Evergreen.

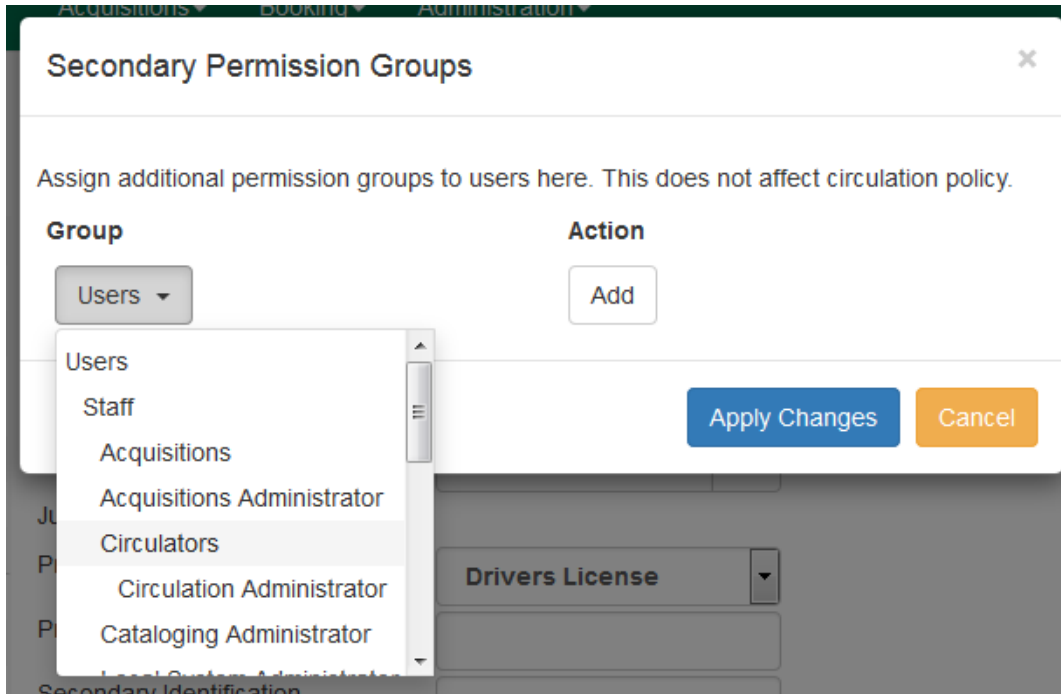
Granting Secondary Permissions Groups

1. Open the account of the user you wish to grant secondary permission group to.

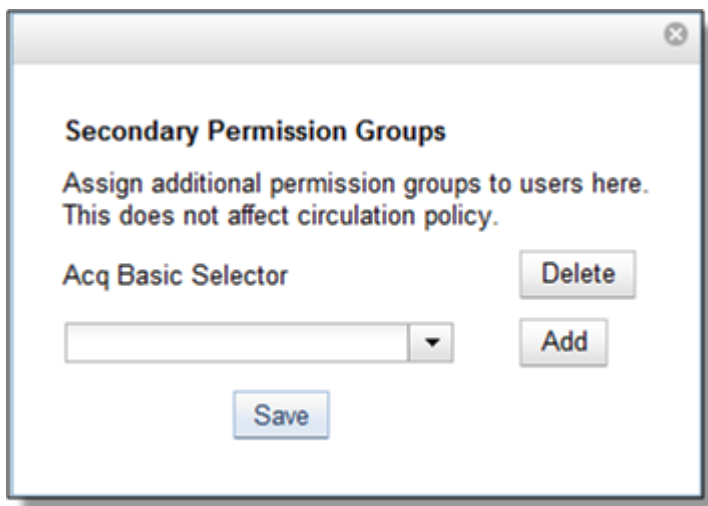
2. Click Edit.
3. Click Secondary Groups, located to the right of the Main (Profile) Permission Group.

Main (Profile) Permission Group

4. From the dropdown menu select one of the secondary permission groups.



5. Click Add.
6. Click Apply Changes.



7. Click Save in the top right hand corner of the Edit Screen to save the user's account.

Removing Secondary Group Permissions

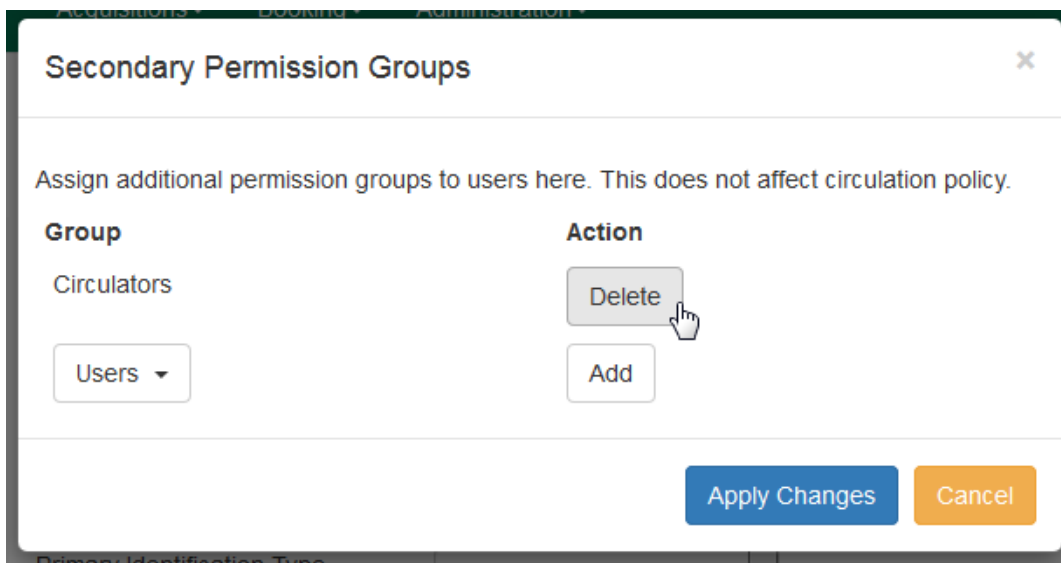
1. Open the account of the user you wish to remove the secondary permission group from.
2. Click Edit.
3. Click Secondary Groups, located to the right of the Main (Profile) Permission Group.

Main (Profile) Permission
Group

Circulators ▾

Secondary Groups

4. Click Delete beside the permission group you would like to remove.

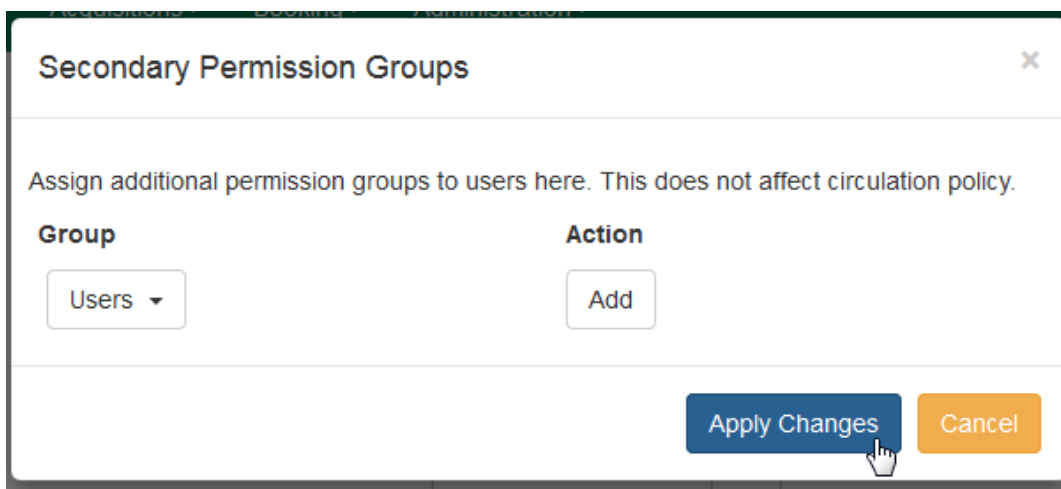


Secondary Permission Groups

Assign additional permission groups to users here. This does not affect circulation policy.

Group	Action
Circulators	Delete
<input type="button" value="Users ▾"/>	<input type="button" value="Add"/>

5. Click Apply Changes.



Secondary Permission Groups

Assign additional permission groups to users here. This does not affect circulation policy.

Group	Action
<input type="button" value="Users ▾"/>	<input type="button" value="Add"/>

6. Click Save in the top right hand corner of the Edit Screen to save the user's account.

Managing role-based permission groups in the database

While the ability to assign a user to multiple permission groups has existed in Evergreen for years, a staff client interface is not currently available to facilitate the work of the Evergreen administrator. However, if you or members of your team are comfortable working directly with the Evergreen database, you can use this approach to separate the borrowing profile of your users from the permissions that you grant to staff, while minimizing the amount of overlapping permissions that you need to manage for a set of permission groups that would otherwise multiply exponentially to represent all possible combinations of staff roles.

In the following example, we create three new groups:

- a Student group used to determine borrowing privileges
- a Student Cataloger group representing a limited set of cataloging permissions appropriate for students
- a Student Circulator group representing a limited set of circulation permissions appropriate for students

Then we add three new users to our system: one who needs to perform some cataloging duties as a student; one who needs perform some circulation duties as a student; and one who needs to perform both cataloging and circulation duties. This section demonstrates how to add these permissions to the users at the database level.

To create the Student group, add a new row to the `permission.grp_tree` table as a child of the Patrons group:

```
INSERT INTO permission.grp_tree (name, parent, usergroup, description, application_perm)
SELECT 'Students', pgt.id, TRUE, 'Student borrowers', 'group_application.user.patron.student'
FROM permission.grp_tree pgt
WHERE name = 'Patrons';
```

To create the Student Cataloger group, add a new row to the `permission.grp_tree` table as a child of the Staff group:

```
INSERT INTO permission.grp_tree (name, parent, usergroup, description, application_perm)
SELECT 'Student Catalogers', pgt.id, TRUE, 'Student catalogers',
'group_application.user.staff.student_cataloger'
FROM permission.grp_tree pgt
WHERE name = 'Staff';
```

To create the Student Circulator group, add a new row to the `permission.grp_tree` table as a child of the Staff group:

```
INSERT INTO permission.grp_tree (name, parent, usergroup, description, application_perm)
SELECT 'Student Circulators', pgt.id, TRUE, 'Student circulators',
'group_application.user.staff.student_circulator'
FROM permission.grp_tree pgt
WHERE name = 'Staff';
```

We want to give the Student Catalogers group the ability to work with MARC records at the consortial level, so we assign the `UPDATE_MARC`, `CREATE_MARC`, and `IMPORT_MARC` permissions at depth 0:

```

WITH pgt AS (
  SELECT id
  FROM permission.grp_tree
  WHERE name = 'Student Catalogers'
)
INSERT INTO permission.grp_perm_map (grp, perm, depth)
SELECT pgt.id, ppl.id, 0
FROM permission.perm_list ppl, pgt
WHERE ppl.code IN ('UPDATE_MARC', 'CREATE_MARC', 'IMPORT_MARC');

```

Similarly, we want to give the Student Circulators group the ability to check out copies and record in-house uses at the system level, so we assign the COPY_CHECKOUT and CREATE_IN_HOUSE_USE permissions at depth 1 (overriding the same Staff permissions that were granted only at depth 2):

```

WITH pgt AS (
  SELECT id
  FROM permission.grp_tree
  WHERE name = 'Student Circulators'
) INSERT INTO permission.grp_perm_map (grp, perm, depth)
SELECT pgt.id, ppl.id, 1
FROM permission.perm_list ppl, pgt
WHERE ppl.code IN ('COPY_CHECKOUT', 'CREATE_IN_HOUSE_USE');

```

Finally, we want to add our students to the groups. The request may arrive in your inbox from the library along the lines of "Please add Mint Julep as a Student Cataloger, Bloody Caesar as a Student Circulator, and Grass Hopper as a Student Cataloger / Circulator; I've already created their accounts and given them a work organizational unit." You can translate that into the following SQL to add the users to the pertinent permission groups, adjusting for the inevitable typos in the names of the users.

First, add our Student Cataloger:

```

WITH pgt AS (
  SELECT id FROM permission.grp_tree
  WHERE name = 'Student Catalogers'
)
INSERT INTO permission.usr_grp_map (usr, grp)
SELECT au.id, pgt.id
FROM actor.usr au, pgt
WHERE first_given_name = 'Mint' AND family_name = 'Julep';

```

Next, add the Student Circulator:

```

WITH pgt AS (
  SELECT id FROM permission.grp_tree
  WHERE name = 'Student Circulators'
)
INSERT INTO permission.usr_grp_map (usr, grp)
SELECT au.id, pgt.id
FROM actor.usr au, pgt
WHERE first_given_name = 'Bloody' AND family_name = 'Caesar';

```

Finally, add the all-powerful Student Cataloger / Student Circulator:

```

WITH pgt AS (
  SELECT id FROM permission.grp_tree
  WHERE name IN ('Student Catalogers', 'Student Circulators')
)
INSERT INTO permission.usr_grp_map (usr, grp)
SELECT au.id, pgt.id
FROM actor.usr au, pgt
WHERE first_given_name = 'Grass' AND family_name = 'Hopper';

```

While adopting this role-based approach might seem labour-intensive when applied to a handful of students in this example, over time it can help keep the permission profiles of your system relatively simple in comparison to the alternative approach of rapidly reproducing permission groups, overlapping permissions, and permissions granted on a one-by-one basis to individual users.

Chapter 26. Migrating Patron Data

This section will explain the task of migrating your patron data from comma delimited files into Evergreen. It does not deal with the process of exporting from the non-Evergreen system since this process may vary depending on where you are extracting your patron records. Patron could come from an ILS or it could come from a student database in the case of academic records.

When importing records into Evergreen you will need to populate 3 tables in your Evergreen database:

- actor.usr - The main table for user data
- actor.card - Stores the barcode for users; Users can have more than 1 card but only 1 can be active at a given time;
- actor.usr_address - Used for storing address information; A user can have more than one address.

Before following the procedures below to import patron data into Evergreen, it is a good idea to examine the fields in these tables in order to decide on a strategy for data to include in your import. It is important to understand the data types and constraints on each field.

1. Export the patron data from your existing ILS or from another source into a comma delimited file. The comma delimited file used for importing the records should use Unicode (UTF8) character encoding.
2. Create a staging table. A staging table will allow you to tweak the data before importing. Here is an example sql statement:

```
CREATE TABLE students (  
    student_id int, barcode text, last_name text, first_name text, email text,  
    address_type text, street1 text, street2 text,  
    city text, province text, country text, postal_code text, phone text, profile  
    int DEFAULT 2, ident_type int, home_ou int, claims_returned_count int DEFAULT  
    0, username text, net_access_level int DEFAULT 2, password text  
);
```



The default variables allow you to set default for your library or to populate required fields in Evergreen if your data includes NULL values.

The data field profile in the above SQL script refers to the user group and should be an integer referencing the id field in permission.grp_tree. Setting this value will affect the permissions for the user. See the values in permission.grp_tree for possibilities.

ident_type is the identification type used for identifying users. This is a integer value referencing config.identification_type and should match the id values of that table. The default values are 1 for Drivers License, 2 for SSN or 3 for other.

home_ou is the home organizational unit for the user. This value needs to match the corresponding id in the actor.org_unit table.

3. Copy records into staging table from a comma delimited file.

```
COPY students (student_id, last_name, first_name, email, address_type, street1, street2,
city, province, country, postal_code, phone)
FROM '/home/opensrf/patrons.csv'
WITH CSV HEADER;
```

The script will vary depending on the format of your patron load file (patrons.csv).

4. Formatting of some fields to fit Evergreen filed formatting may be required. Here is an example of sql to adjust phone numbers in the staging table to fit the evergreen field:

```
UPDATE students phone = replace(replace(replace(rpad(substring(phone from 1 for 9), 10, '-') ||
substring(phone from 10), '(', ''), ')', ''), ' ', '-');
```

Data “massaging” will be required to fit formats used in Evergreen.

5. Insert records from the staging table into the actor.usr Evergreen table:

```
INSERT INTO actor.usr (
profile, username, email, passwd, ident_type, ident_value, first_given_name,
family_name, day_phone, home_ou, claims_returned_count, net_access_level)
SELECT profile, students.username, email, password, ident_type, student_id,
first_name, last_name, phone, home_ou, claims_returned_count, net_access_level
FROM students;
```

6. Insert records into actor.card from actor.usr .

```
INSERT INTO actor.card (usr, barcode)
SELECT actor.usr.id, students.barcode
FROM students
INNER JOIN actor.usr
ON students.username = actor.usr.username;
```

This assumes a one to one card patron relationship. If your patron data import has multiple cards assigned to one patron more complex import scripts may be required which look for inactive or active flags.

7. Update actor.usr.card field with actor.card.id to associate active card with the user:

```
UPDATE actor.usr
SET card = actor.card.id
FROM actor.card
WHERE actor.card.usr = actor.usr.id;
```

8. Insert records into actor.usr_address to add address information for users:

```
INSERT INTO actor.usr_address (usr, street1, street2, city, state, country, post_code)
SELECT actor.usr.id, students.street1, students.street2, students.city, students.province,
students.country, students.postal_code
FROM students
INNER JOIN actor.usr ON students.username = actor.usr.username;
```

9. Update actor.usr.address with address id from address table.

```
UPDATE actor.usr
SET mailing_address = actor.usr_address.id, billing_address = actor.usr_address.id
FROM actor.usr_address
WHERE actor.usr.id = actor.usr_address.usr;
```

This assumes 1 address per patron. More complex scenarios may require more sophisticated SQL.

Creating an sql Script for Importing Patrons

The procedure for importing patron can be automated with the help of an sql script. Follow these steps to create an import script:

1. Create an new file and name it import.sql
2. Edit the file to look similar to this:

```
BEGIN;

-- Create staging table.
CREATE TABLE students (
    student_id int, barcode text, last_name text, first_name text, email text, address_type text,
    street1 text, street2 text, city text, province text, country text, postal_code text, phone
text, profile int, ident_type int, home_ou int, claims_returned_count int DEFAULT 0, username
text, net_access_level int DEFAULT 2, password text
);

--Copy records from your import text file
COPY students (student_id, last_name, first_name, email, address_type, street1, street2, city, province,
country, postal_code, phone, password)
FROM '/home/opensrf/patrons.csv' WITH CSV HEADER;

--Insert records from the staging table into the actor.usr table.
INSERT INTO actor.usr (
    profile, username, email, passwd, ident_type, ident_value, first_given_name, family_name,
    day_phone, home_ou, claims_returned_count, net_access_level)
SELECT profile, students.username, email, password, ident_type, student_id, first_name,
last_name, phone, home_ou, claims_returned_count, net_access_level FROM students;

--Insert records from the staging table into the actor.usr table.
INSERT INTO actor.card (usr, barcode)
SELECT actor.usr.id, students.barcode
FROM students
    INNER JOIN actor.usr
        ON students.username = actor.usr.username;

--Update actor.usr.card field with actor.card.id to associate active card with the user:
UPDATE actor.usr
SET card = actor.card.id
FROM actor.card
WHERE actor.card.usr = actor.usr.id;

--INSERT records INTO actor.usr_address from staging table.
INSERT INTO actor.usr_address (usr, street1, street2, city, state, country, post_code)
SELECT actor.usr.id, students.street1, students.street2, students.city, students.province,
students.country, students.postal_code
FROM students
INNER JOIN actor.usr ON students.username = actor.usr.username;

--Update actor.usr mailing address with id from actor.usr_address table.:
UPDATE actor.usr
SET mailing_address = actor.usr_address.id, billing_address = actor.usr_address.id
FROM actor.usr_address
WHERE actor.usr.id = actor.usr_address.usr;

COMMIT;
```

Placing the sql statements between BEGIN; and COMMIT; creates a transaction block so that if any sql statements fail, the entire process is canceled and the database is rolled back to its original

state. Lines beginning with — are comments to let you you what each sql statement is doing and are not processed.

Batch Updating Patron Data

For academic libraries, doing batch updates to add new patrons to the Evergreen database is a critical task. The above procedures and import script can be easily adapted to create an update script for importing new patrons from external databases. If the data import file contains only new patrons, then, the above procedures will work well to insert those patrons. However, if the data load contains all patrons, a second staging table and a procedure to remove existing patrons from that second staging table may be required before importing the new patrons. Moreover, additional steps to update address information and perhaps delete inactive patrons may also be desired depending on the requirements of the institution.

After developing the scripts to import and update patrons have been created, another important task for library staff is to develop an import strategy and schedule which suits the needs of the library. This could be determined by registration dates of your institution in the case of academic libraries. It is important to balance the convenience of patron loads and the cost of processing these loads vs staff adding patrons manually.

Chapter 27. Migrating from a legacy system

When you migrate to Evergreen, you generally want to migrate the bibliographic records and copy information that existed in your previous library system. For anything more than a few thousand records, you should import the data directly into the database rather than use the tools in the staff client. While the data that you can extract from your legacy system varies widely, this section assumes that you or members of your team have the ability to write scripts and are comfortable working with SQL to manipulate data within PostgreSQL. If so, then the following section will guide you towards a method of generating common data formats so that you can then load the data into the database in bulk.

Making electronic resources visible in the catalog

Electronic resources generally do not have any call number or copy information associated with them, and Evergreen enables you to easily make bibliographic records visible in the public catalog within sections of the organizational unit hierarchy. For example, you can make a set of bibliographic records visible only to specific branches that have purchased licenses for the corresponding resources, or you can make records representing publicly available electronic resources visible to the entire consortium.

Therefore, to make a record visible in the public catalog, modify the records using your preferred MARC editing approach to ensure the 856 field contains the following information before loading records for electronic resources into Evergreen:

Table 27.1. 856 field for electronic resources: indicators and subfields

Attribute	Value	Note
Indicator 1	4	
Indicator 2	0 or 1	
Subfield u	URL for the electronic resource	
Subfield y	Text content of the link	
Subfield z	Public note	Normally displayed after the link
Subfield 9	Organizational unit short name	The record will be visible when a search is performed specifying this organizational unit or one of its children. You can repeat this subfield as many times as you need.

Once your electronic resource bibliographic records have the required indicators and subfields for each 856 field in the record, you can proceed to load the records using either the command-line bulk import method or the MARC Batch Importer in the staff client.

Migrating your bibliographic records

Convert your MARC21 binary records into the MARCXML format, with one record per line. You can use the following Python script to achieve this goal; just install the pymarc library first, and adjust the values of the input and output variables as needed.

```
#!/usr/bin/env python
# -*- coding: utf-8 -*-
import codecs
import pymarc

input = 'records_in.mrc'
output = 'records_out.xml'

reader = pymarc.MARCReader(open(input, 'rb'), to_unicode=True)
writer = codecs.open(output, 'w', 'utf-8')
for record in reader:
    record.leader = record.leader[:9] + 'a' + record.leader[10:]
    writer.write(pymarc.record_to_xml(record) + "\n")
```

Once you have a MARCXML file with one record per line, you can load the records into your Evergreen system via a staging table in your database.

1. Connect to the PostgreSQL database using the psql command. For example:

```
psql -U <user-name> -h <hostname> -d <database>
```

2. Create a staging table in the database. The staging table is a temporary location for the raw data that you will load into the production table or tables. Issue the following SQL statement from the psql command line, adjusting the name of the table from staging_records_import, if desired:

```
CREATE TABLE staging_records_import (id BIGSERIAL, dest BIGINT, marc TEXT);
```

3. Create a function that will insert the new records into the production table and update the dest column of the staging table. Adjust "staging_records_import" to match the name of the staging table that you plan to create when you issue the following SQL statement:

```
CREATE OR REPLACE FUNCTION staging_importer() RETURNS VOID AS $$
DECLARE stage RECORD;
BEGIN
FOR stage IN SELECT * FROM staging_records_import ORDER BY id LOOP
    INSERT INTO biblio.record_entry (marc, last_xact_id) VALUES (stage.marc, 'IMPORT');
    UPDATE staging_records_import SET dest = currval('biblio.record_entry_id_seq')
    WHERE id = stage.id;
END LOOP;
END;
$$ LANGUAGE plpgsql;
```

4. Load the data from your MARCXML file into the staging table using the COPY statement, adjusting for the name of the staging table and the location of your MARCXML file:

```
COPY staging_records_import (marc) FROM '/tmp/records_out.xml';
```

5. Load the data from your staging table into the production table by invoking your staging function:

```
SELECT staging_importer();
```

When you leave out the id value for a BIGSERIAL column, the value in the column automatically increments for each new record that you add to the table.

Once you have loaded the records into your Evergreen system, you can search for some known records using the staff client to confirm that the import was successful.

Migrating your call numbers, copies, and parts

Holdings, comprised of call numbers, copies, and parts, are the set of objects that enable users to locate and potentially acquire materials from your library system.

Call numbers connect libraries to bibliographic records. Each call number has a label associated with a classification scheme such as the Library of Congress or Dewey Decimal systems, and can optionally have either or both a label prefix and a label suffix. Label prefixes and suffixes do not affect the sort order of the label.

Copies connect call numbers to particular instances of that resource at a particular library. Each copy has a barcode and must exist in a particular copy location. Other optional attributes of copies include circulation modifier, which may affect whether that copy can circulate or for how long it can circulate, and OPAC visibility, which controls whether that particular copy should be visible in the public catalog.

Parts provide more granularity for copies, primarily to enable patrons to place holds on individual parts of a set of items. For example, an encyclopedia might be represented by a single bibliographic record, with a single call number representing the label for that encyclopedia at a given library, with 26 copies representing each letter of the alphabet, with each copy mapped to a different part such as A, B, C, ... Z.

To migrate this data into your Evergreen system, you will create another staging table in the database to hold the raw data for your materials from which the actual call numbers, copies, and parts will be generated.

Begin by connecting to the PostgreSQL database using the `psql` command. For example:

```
psql -U <user-name> -h <hostname> -d <database>
```

Create the staging materials table by issuing the following SQL statement:

```
CREATE TABLE staging_materials (  
  bibkey BIGINT, -- biblio.record_entry_id  
  callnum TEXT, -- call number label  
  callnum_prefix TEXT, -- call number prefix  
  callnum_suffix TEXT, -- call number suffix  
  callnum_class TEXT, -- classification scheme  
  create_date DATE,  
  location TEXT, -- shelving location code  
  item_type TEXT, -- circulation modifier code  
  owning_lib TEXT, -- org unit code  
  barcode TEXT, -- copy barcode  
  part TEXT  
);
```

For the purposes of this example migration of call numbers, copies, and parts, we assume that you are able to create a tab-delimited file containing values that map to the staging table properties, with one copy per line. For example, the following 5 lines demonstrate how the file could look for 5 different copies, with non-applicable attribute values represented by `\N`, and 3 of the copies connected to a single call number and bibliographic record via parts:

```

1 QA 76.76 A3 \N \N LC 2012-12-05 STACKS BOOK BR1 30007001122620 \N
2 GV 161 V8 Ref. Juv. LC 2010-11-11 KIDS DVD BR2 30007005197073 \N
3 AE 5 E363 1984 \N \N LC 1984-01-10 REFERENCE BOOK BR1 30007006853385 A
3 AE 5 E363 1984 \N \N LC 1984-01-10 REFERENCE BOOK BR1 30007006853393 B
3 AE 5 E363 1984 \N \N LC 1984-01-10 REFERENCE BOOK BR1 30007006853344 C

```

Once your holdings are in a tab-delimited format—which, for the purposes of this example, we will name `holdings.tsv`--you can import the holdings file into your staging table. Copy the contents of the holdings file into the staging table using the COPY SQL statement:

```

COPY staging_items (bibkey, callnum, callnum_prefix,
  callnum_suffix, callnum_class, create_date, location,
  item_type, owning_lib, barcode, part) FROM 'holdings.tsv';

```

Generate the copy locations you need to represent your holdings:

```

INSERT INTO asset.copy_location (name, owning_lib)
  SELECT DISTINCT location, 1 FROM staging_materials
  WHERE NOT EXISTS (
    SELECT 1 FROM asset.copy_location
    WHERE name = location
  );

```

Generate the circulation modifiers you need to represent your holdings:

```

INSERT INTO config.circ_modifier (code, name, description, sip2_media_type)
  SELECT DISTINCT circmod, circmod, circmod, '001'
  FROM staging_materials
  WHERE NOT EXISTS (
    SELECT 1 FROM config.circ_modifier
    WHERE circmod = code
  );

```

Generate the call number prefixes and suffixes you need to represent your holdings:

```

INSERT INTO asset.call_number_prefix (owning_lib, label)
  SELECT DISTINCT aou.id, callnum_prefix
  FROM staging_materials sm
  INNER JOIN actor.org_unit aou
    ON aou.shortname = sm.owning_lib
  WHERE NOT EXISTS (
    SELECT 1 FROM asset.call_number_prefix acnp
    WHERE callnum_prefix = acnp.label
    AND aou.id = acnp.owning_lib
  ) AND callnum_prefix IS NOT NULL;

```

```

INSERT INTO asset.call_number_suffix (owning_lib, label)
  SELECT DISTINCT aou.id, callnum_suffix
  FROM staging_materials sm
  INNER JOIN actor.org_unit aou
    ON aou.shortname = sm.owning_lib
  WHERE NOT EXISTS (
    SELECT 1 FROM asset.call_number_suffix acns
    WHERE callnum_suffix = acns.label
    AND aou.id = acns.owning_lib
  ) AND callnum_suffix IS NOT NULL;

```

Generate the call numbers for your holdings:

```

INSERT INTO asset.call_number (
  creator, editor, record, owning_lib, label, prefix, suffix, label_class
)
  SELECT DISTINCT 1, 1, bibkey, aou.id, callnum, acnp.id, acns.id,
  CASE WHEN callnum_class = 'LC' THEN 1
    WHEN callnum_class = 'DEWEY' THEN 2

```

```

END
FROM staging_materials sm
  INNER JOIN actor.org_unit aou
    ON aou.shortname = owning_lib
  INNER JOIN asset.call_number_prefix acnp
    ON COALESCE(acnp.label, '') = COALESCE(callnum_prefix, '')
  INNER JOIN asset.call_number_suffix acns
    ON COALESCE(acns.label, '') = COALESCE(callnum_suffix, '')
;

```

Generate the copies for your holdings:

```

INSERT INTO asset.copy (
  circ_lib, creator, editor, call_number, location,
  loan_duration, fine_level, barcode
)
SELECT DISTINCT aou.id, 1, 1, acn.id, acl.id, 2, 2, barcode
FROM staging_materials sm
  INNER JOIN actor.org_unit aou
    ON aou.shortname = sm.owning_lib
  INNER JOIN asset.copy_location acl
    ON acl.name = sm.location
  INNER JOIN asset.call_number acn
    ON acn.label = sm.callnum
WHERE acn.deleted IS FALSE
;

```

Generate the parts for your holdings. First, create the set of parts that are required for each record based on your staging materials table:

```

INSERT INTO biblio.monograph_part (record, label)
SELECT DISTINCT bibkey, part
FROM staging_materials sm
WHERE part IS NOT NULL AND NOT EXISTS (
  SELECT 1 FROM biblio.monograph_part bmp
  WHERE sm.part = bmp.label
  AND sm.bibkey = bmp.record
);

```

Now map the parts for each record to the specific copies that you added:

```

INSERT INTO asset.copy_part_map (target_copy, part)
SELECT DISTINCT acp.id, bmp.id
FROM staging_materials sm
  INNER JOIN asset.copy acp
    ON acp.barcode = sm.barcode
  INNER JOIN biblio.monograph_part bmp
    ON bmp.record = sm.bibkey
WHERE part IS NOT NULL
  AND part = bmp.label
  AND acp.deleted IS FALSE
  AND NOT EXISTS (
    SELECT 1 FROM asset.copy_part_map
    WHERE target_copy = acp.id
    AND part = bmp.id
  );

```

At this point, you have loaded your bibliographic records, call numbers, call number prefixes and suffixes, copies, and parts, and your records should be visible to searches in the public catalog within the appropriate organization unit scope.

Chapter 28. Importing materials in the staff client

Evergreen exists to connect users to the materials represented by bibliographic records, call numbers, and copies — so getting these materials into your Evergreen system is vital to a successful system. There are two primary means of getting materials into Evergreen:

- The Evergreen staff client offers the MARC Batch Importer, which is a flexible interface primarily used for small batches of records;
- Alternately, import scripts can load data directly into the database, which is a highly flexible but much more complex method of loading materials suitable for large batches of records such as the initial migration from your legacy library system.

Staff client batch record imports

The staff client has a utility for importing batches of bibliographic and copy records available through Cataloging > MARC Batch Import/Export. In addition to importing new records, this interface can be used to match incoming records to existing records in the database, add or overlay MARC fields in the existing record, and add copies to those records.

The MARC Batch Import interface may also be colloquially referred to as "Vandelay" in the Evergreen community, referring to this interface's internals in the system. You will also see this name used in several places in the editor. For instance, when you click on the Record Match Sets, the title on the screen will be Vandelay Match Sets.

When to use the MARC Batch Importer

- When importing in batches of up to 500 to 1,000 records.
- When you need the system to match those incoming records to existing records and overlay or add fields to the existing record.
- When you need to add copies to existing records in the system.



If you are importing copies that do not have barcodes or call numbers, you must enable the Vandelay Generate Default Barcodes and Vandelay Default Barcode Prefix (vandelay.item.barcode.prefix) settings.

Record Match Sets

Click the Record Match Sets button to identify how Evergreen should match incoming records to existing records in the system.

These record match sets can be used when importing records through the MARC Batch Importer or when importing order records through the Acquisitions Load MARC Order Records interface.

Common match points used when creating a match set include:

- MARC tag 020a (ISBN)
- MARC tag 022a (ISSN)
- MARC tag 024a (UPC)
- MARC tag 028a (Publisher number)

Create Match Sets

1. On the Record Match Sets screen, click New Match Set to create a set of record match points. Give the set a Name. Assign the Owning Library from the dropdown list. The Match Set Type should remain as biblio. Click Save.
2. If you don't see your new set in the list, in the upper left corner of the staff client window, click the Reload button.
3. If you had to reload, click the Record Match Sets button to get back to that screen. Find your new set in the list and click its name. (The name will appear to be a hyperlink.) This will bring you to the Vandelay Match Set Editor.
4. Create an expression that will define the match points for the incoming record. You can choose from two areas to create a match: Record Attribute (MARC fixed fields) or MARC Tag and Subfield. You can use the Boolean operators AND and OR to combine these elements to create a match set.
5. When adding a Record Attribute or MARC tag/subfield, you also can enter a Match Score. The Match Score indicates the relative importance of that match point as Evergreen evaluates an incoming record against an existing record. You can enter any integer into this field. The number that you enter is only important as it relates to other match points.

Recommended practice is that you create a match score of one (1) for the least important match point and assign increasing match points to the power of 2 to working points in increasing importance. . After creating a match point, drag the completed match point under the folder with the appropriately-named Boolean folder under the Expression tree.

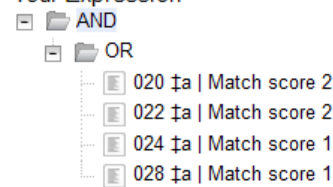
Your Expression: `((020 +a OR 022 +a OR 024 +a OR 028 +a))`

Add new

Working Match Point

Choose from among the three buttons above to add a new match point.

Your Expression



6. Click Save Changes to Expression.

Quality Metrics

- Quality metrics provide a mechanism for Evergreen to measure the quality of records and to make importing decisions based on quality.
- Metrics are configured in the match set editor.
- Quality metrics are not required when creating a match set.
- You can use a value in a record attribute (MARC fixed fields) or a MARC tag as your quality metric.
- The encoding level record attribute can be one indicator of record quality.

Quality	Record Attribute	Tag	Subfield	Value
1	enc_level			E
2	enc_level			J
3	enc_level			3
4	enc_level			7
5	enc_level			5
6	enc_level			M
7	enc_level			2
8	enc_level			K
9	enc_level			8
10	enc_level			L
11	enc_level			I
12	enc_level			4
13	enc_level			1
14	enc_level			

Import Item Attributes

If you are importing copies with your records, you will need to map the data in your holdings tag to fields in the copy record. Click the Holdings Import Profile button to map this information.

1. Click the New Definition button to create a new mapping for the holdings tag.
2. Add a Name for the definition.
3. Use the Tag field to identify the MARC tag that contains your holdings information.
4. Add the subfields that contain specific copy information to the appropriate copy field.
5. Select the Keep box if Evergreen should keep this holdings tag in the record after it is imported. Otherwise, Evergreen will remove this holdings tag.
6. At a minimum, you should add the subfields that identify the Circulating Library, the Owning Library, the Call Number and the Barcode.

7. For more details, see the [full list of import fields](#)



All fields (except for Name, Tag and Keep) can contain static values, a MARC subfield code (such as "a"), or an XPATH query.

[Export Records](#) [Import Records](#) [Inspect Queue](#)

Holdings Import Profiles

Context Org Unit

[Back](#) [Next](#) [Filter](#)

Alert Message	<input type="text"/>
Barcode	<input type="text" value="p"/>
Call Number	<input type="text" value="j"/>
Circulate	<input type="text" value="[@code = 'x' and text() = 'circulate']"/>
Circulate As MARC Type	<input type="text"/>
Circulating Library	<input type="text" value="[@code = 'b'] [2]"/>
Circulation Modifier	<input type="text" value="g"/>
Copy Number	<input type="text" value="t"/>
Definition ID	<input type="text" value="1"/>
Deposit	<input type="text"/>

Overlay/Merge Profiles

If Evergreen finds a match for an incoming record in the database, you need to identify which fields should be replaced, which should be preserved, and which should be added to the record. Click the Merge/Overlay Profiles button to create a profile that contains this information.

These overlay/merge profiles can be used when importing records through the MARC Batch Importer or when importing order records through the Acquisitions Load MARC Order Records interface.

Evergreen comes pre-installed with two default profiles:

- Default merge - No fields from incoming record are added to match. This profile is useful for item loads or for order record uploads.
- Default overlay - Incoming record will replace existing record.

You can customize the overlay/merge behavior with a new profile by clicking the New Merge Profile button. Available options for handling the fields include:

- Preserve specification - fields in the existing record that should be preserved.
- Replace specification - fields in existing record that should be replaced by those in the incoming record.
- Add specification - fields from incoming record that should be added to existing record (in addition to any already there.)
- Remove specification - fields that should be removed from incoming record.

You can add multiple tags to these specifications, separating each tag with a comma.

Importing the records

After making the above configurations, you are now ready to import your records.

1. Click the Import Records button
2. Provide a unique name for the queue where the records will be loaded
3. Identify the match set that should be used for matching
4. If you are importing copies, identify the Import Item Attributes definition in the Holdings Import Profile
5. Select a record source
6. Select the overlay/merge profile that defines which fields should be replaced, added or preserved
7. Identify which records should be imported, the options are:
 - Import Non-Matching Records will automatically import records that have no match in the system
 - Merge on Exact Match will automatically import records that match on the 901c (record ID)
 - Merge on Single Match will automatically import records when there is only one match in the system
 - Merge on Best Match will automatically import records for the best match in the system; the best match will be determined by the combined total of the records match point scores

You do not need to select any of these import options at this step. You may also opt to review the records first in the import queue and then import them.

- Best Single Match Minimum Quality Ratio should only be changed if quality metrics were used in the match set
 - Set to 0.0 to import a record regardless of record quality
 - Set to 1.0 if the incoming record must be of equal or higher quality than the existing record to be imported

- Set to 1.1 if the incoming record must be of higher quality than the existing record to be imported
- Insufficient Quality Fall-Through Profile can also be used with quality metrics. If an incoming record does not meet the standards of the minimum quality ratio, you can identify a back-up merge profile to be used for those records. For example, you may want to use the default overlay profile for high-quality records but use the default merge profile for lower quality records.

Chapter 29. Ordering materials

Acquisitions allows you to order materials, track the expenditure of your collections funds, track invoices and set up policies for manual claiming. In this chapter, we're going to be describing how to use the most essential functions of acquisitions in the Evergreen system.

When should libraries use acquisitions?

- When you want to track spending of your collections budget.
- When you want to use Evergreen to place orders electronically with your vendors.
- When you want to import large batches of records to quickly get your on-order titles into the system.

If your library simply wants to add on-order copies to the catalog so that patrons can view and place holds on titles that have not yet arrived, acquisitions may be more than you need. Adding those on-order records via cataloging is a simpler option that works well for this use case.

Below are the basic administrative settings to be configured to get started with acquisitions. At a minimum, a library must configure Funding Sources, Funds, and Providers to use acquisitions.

Managing Funds

Funding Sources (Required)

Funding sources allow you to specify the sources that contribute monies to your fund(s). You can create as few or as many funding sources as you need. These can be used to track exact amounts for accounts in your general ledger.

Example funding sources might be:

- A municipal allocation for your materials budget;
- A trust fund used for collections;
- A revolving account that is used to replace lost materials;
- Grant funds to be used for collections.

Funding sources are not tied to fiscal or calendar years, so you can continue to add money to the same funding source over multiple years, e.g. County Funding. Alternatively, you can name funding sources by year, e.g. County Funding 2010 and County Funding 2011, and apply credits each year to the matching source.

1. To create a funding source, select Admin > Server Administration > Acquisitions > Funding Source. Click the New Funding Source button. Give the funding source a name, an owning library, and code. You should also identify the type of currency that is used for the fund.

2. You must add money to the funding source before you can use it. Click the hyperlinked name of the funding source and then click the Apply Credit button. Add the amount of funds you need to add. The Note field is optional.

Funds (Required)

Funds allow you to allocate credits toward specific purchases. They typically are used to track spending and purchases for specific collections. Some libraries may choose to define very broad funds for their collections (e.g. children's materials, adult materials) while others may choose to define more specific funds (e.g. adult non-fiction DVDs for BR1).

If your library does not wish to track fund accounting, you can create one large generic fund and use that fund for all of your purchases.

1. To create a fund, select Admin > Server Administration > Acquisitions > Funds. Click the New Fund button. Give the fund a name and code.
2. The Year can either be the fiscal or calendar year for the fund.
3. If you are a multi-branch library that will be ordering titles for multiple branches, you should select the system as the owning Org Unit, even if this fund will only be used for collections at a specific branch. If you are a one-branch library or if your branches do their own ordering, you can select the branch as the owning Org Unit.
4. Select the Currency Type that will be used for this fund.
5. You must select the Active checkbox to use the fund.
6. Enter a Balance Stop Percent. The balance stop percent prevents you from making purchases when only a specified amount of the fund remains. For example, if you want to spend 95 percent of your funds, leaving a five percent balance in the fund, then you would enter 95 in the field. When the fund reaches its balance stop percent, it will appear in red when you apply funds to copies.
7. Enter a Balance Warning Percent. The balance warning percent gives you a warning that the fund is low. You can specify any percent. For example, if you want to spend 90 percent of your funds and be warned when the fund has only 10 percent of its balance remaining, then enter 90 in the field. When the fund reaches its balance warning percent, it will appear in yellow when you apply funds to copies.
8. Check the Propagate box to propagate funds. When you propagate a fund, the system will create a new fund for the following fiscal year with the same parameters as your current fund. All of the settings transfer except for the year and the amount of money in the fund. Propagation occurs during the fiscal year close-out operation.
9. Check the Rollover box if you want to roll over remaining encumbrances and funds into the same fund next year. If you need the ability to roll over encumbrances without rolling over funds, go to the Library Settings Editor (Admin > Local Administration > Library Settings Editor) and set Allow funds to be rolled over without bringing the money along to True.

10You must add money to the fund before you can begin using it. Click the hyperlinked name of the fund. Click the Create Allocation button. Select a Funding Source from which the allocation will be drawn and then enter an amount for the allocation. The Note field is optional.

Fund Tags (Optional)

You can apply tags to funds so that you can group funds for easy reporting. For example, you have three funds for children's materials: Children's Board Books, Children's DVDs, and Children's CDs. Assign a fund tag of children's to each fund. When you need to report on the amount that has been spent on all children's materials, you can run a report on the fund tag to find total expenditures on children's materials rather than reporting on each individual fund.

1. To create a fund tag, select Admin > Server Administration > Acquisitions > Fund Tags. Click the New Fund Tag button. Select a owning library and add the name for the fund tag.
2. To apply a fund tag to a fund, select Admin > Server Administration > Acquisitions > Funds. Click on the hyperlinked name for the fund. Click the Tags tab and then click the Add Tag button. Select the tag from the dropdown menu.

Ordering

Providers (Required)

Providers are the vendors from whom you order titles.

1. To add a provider record, select Admin > Server Administration > Acquisitions > Providers.
2. Enter information about the provider. At a minimum, you need to add a Provider Name, Code, Owner, and Currency. You also need to select the Active checkbox to use the provider.

Distribution Formulas (Optional)

If you are ordering for a multi-branch library system, distribution formulas are a useful way to specify the number of copies that should be distributed to specific branches and copy locations.

1. To create a distribution formula, select Admin > Server Administration > Acquisitions > Distribution Formulas. Click the New Formula button. Enter the formula name and select the owning library. Ignore the Skip Count field.
2. Click New Entry. Select an Owning Library from the drop down menu. This indicates the branch that will receive the items.
3. Select a Shelving Location from the drop down menu.
4. In the Item Count field, enter the number of items that should be distributed to that branch and copy location. You can enter the number or use the arrows on the right side of the field.
5. Keep adding entries until the distribution formula is complete.

Helpful acquisitions Library Settings

There are several acquisitions Library Settings available that will help with acquisitions workflow. These settings can be found at Admin > Local Administration > Library Settings Editor.

- Default circulation modifier - Automatically applies a default circulation modifier to all of your acquisitions copies. Useful if you use a specific circulation modifier for on-order copies.
- Default copy location - Automatically applies a default copy location (e.g. On Order) to acquisitions copies.
- Temporary barcode prefix - Applies a unique prefix to the barcode that is automatically generated during the acquisitions process.
- Temporary call number prefix - Applies a unique prefix to the start of the call number that is automatically generated during the acquisitions process.

Preparing for order record loading

If your library is planning to upload order records in a batch, you need to add some information to your provider records so that Evergreen knows how to map the copy data contained in the order record.

1. Retrieve the record for the provider that has supplied the order records by selecting Admin > Server Administration > Acquisitions > Providers. Click on the hyperlinked Provider name.
2. In the top frame, add the MARC tag that contains your holdings data in the Holdings Tag field (this tag can also be entered at the time you create the provider record.)
3. To map the tag's subfields to the appropriate copy data, click the Holding Subfield tab. Click the New Holding Subfield button and select the copy data that you are mapping. Add the subfield that contains that data and click Save.

Holding Subfield

[Back](#) [Next](#)

✓	#	Provider	Name	Subfield	
<input type="checkbox"/>	1	bt	quantity	q	
<input type="checkbox"/>	2	bt	estimated_price	p	
<input type="checkbox"/>	3	bt	owning_lib	b	
<input type="checkbox"/>	4	bt	fund_code	u	
<input type="checkbox"/>	5	bt	copy_location	t	
<input type="checkbox"/>	6	bt	circ_modifier	g	

4. If your vendor is sending other data in a MARC tag that needs to be mapped to a field in acquisitions, you can do so by clicking the Attribute Definitions tab. As an example, if you need to import the PO Name, you could set up an attribute definition by adding an XPath similar to:

```
code => purchase_order
xpath => //*[@tag="962"]/*[@code="p"]
Is Identifier => false
```

where 962 is the holdings tag and p is the subfield that contains the PO Name.

Preparing to send electronic orders from Evergreen

If your library wants to transmit electronic order information to a vendor, you will need to configure your server to use EDI. You need to install the EDI translator and EDI scripts on your server by following the instructions in the Evergreen 2.3 documentation. (http://docs.evergreen-ils.org/2.3/_installation.html)

Configure your provider's EDI information by selecting Admin > Server Administration > Acquisitions > EDI Accounts. Give the account a name in the Label box.

1. Host is the vendor-assigned FTP/SFTP/SSH hostname.
2. Username is the vendor-assigned FTP/SFTP/SSH username.
3. Password is the vendor-assigned FTP/SFTP/SSH password.
4. Account This field enables you to add a supplemental password for entry to a remote system after log in has been completed. This field is optional for the ILS but may be required by your provider.
5. Owner is the organizational unit who owns the EDI account
6. Last Activity is the date of last activity for the account
7. Provider is a link to the codes for the Provider record.
8. Path is the path on the vendor's server where Evergreen will deposit its outgoing order files.
9. Incoming Directory is the path on the vendor's server where Evergreen will retrieve incoming order responses and invoices.
- 10 Vendor Account Number is the Vendor assigned account number.
- 11 Vendor Assigned Code is usually a sub-account designation. It can be used with or without the Vendor Account Number.

You now need to add this EDI Account and the SAN code to the provider's record.

1. Select Admin > Server Administration > Acquisitions > Providers.
2. Click the hyperlinked Provider name.
3. Select the account you just created in the EDI Default field.
4. Add the vendor-provided SAN code to the SAN field.

The last step is to add your library's SAN code to Evergreen.

1. Select Admin > Server Administration > Organizational Units.
2. Select your library from the organizational hierarchy in the left pane.
3. Click the Addresses tab and add your library's SAN code to the SAN field.

Chapter 30. Designing your catalog

When people want to find things in your Evergreen system, they will check the catalog. In Evergreen, the catalog is made available through a web interface, called the OPAC (Online Public Access Catalog). In the latest versions of the Evergreen system, the OPAC is built on a set of programming modules called the Template Toolkit. You will see the OPAC sometimes referred to as the TPAC.

In this chapter, we'll show you how to customize the OPAC, change it from its default configuration, and make it your own.

Configuring and customizing the public interface

The public interface is referred to as the TPAC or Template Toolkit (TT) within the Evergreen community. The template toolkit system allows you to customize the look and feel of your OPAC by editing the template pages (.tt2) files as well as the associated style sheets.

Locating the default template files

The default URL for the TPAC on a default Evergreen system is `http://localhost/eg/opac/home` (adjust localhost to match your hostname or IP address).

The default template file is installed in `/openils/var/templates/opac`.

You should generally avoid touching the installed default template files, unless you are contributing changes for Evergreen to adopt as a new default. Even then, while you are developing your changes, consider using template overrides rather than touching the installed templates until you are ready to commit the changes to a branch. See below for information on template overrides.

Mapping templates to URLs

The mapping for templates to URLs is straightforward. Following are a few examples, where `<templates>` is a placeholder for one or more directories that will be searched for a match:

- `http://localhost/eg/opac/home` ⇒ `/openils/var/<templates>/opac/home.tt2`
- `http://localhost/eg/opac/advanced` ⇒ `/openils/var/<templates>/opac/advanced.tt2`
- `http://localhost/eg/opac/results` ⇒ `/openils/var/<templates>/opac/results.tt2`

The template files themselves can process, be wrapped by, or include other template files. For example, the `home.tt2` template currently involves a number of other template files to generate a single HTML file.

Example Template Toolkit file: `opac/home.tt2`.

```
[% PROCESS "opac/parts/header.tt2";
```

```

WRAPPER "opac/parts/base.tt2";
INCLUDE "opac/parts/topnav.tt2";
ctx.page_title = l("Home") %]
<div id="search-wrapper">
  [% INCLUDE "opac/parts/searchbar.tt2" %]
</div>
<div id="content-wrapper">
  <div id="main-content-home">
    <div class="common-full-pad"></div>
    [% INCLUDE "opac/parts/homesearch.tt2" %]
    <div class="common-full-pad"></div>
  </div>
</div>
[% END %]

```

Note that file references are relative to the top of the template directory.

How to override template files

Overrides for template files or TPAC pages go in a directory that parallels the structure of the default templates directory. The overrides then get pulled in via the Apache configuration.

The following example demonstrates how to create a file that overrides the default "Advanced search page" (advanced.tt2) by adding a new templates_custom directory and editing the new file in that directory.

```

bash$ mkdir -p /openils/var/templates_custom/opac
bash$ cp /openils/var/templates/opac/advanced.tt2 \
  /openils/var/templates_custom/opac/
bash$ vim /openils/var/templates_custom/opac/advanced.tt2

```

Configuring the custom templates directory in Apache's eg.conf

You now need to teach Apache about the new custom template directory. Edit /etc/apache2/sites-available/eg.conf and add the following <Location /eg> element to each of the <VirtualHost> elements in which you want to include the overrides. The default Evergreen configuration includes a VirtualHost directive for port 80 (HTTP) and another one for port 443 (HTTPS); you probably want to edit both, unless you want the HTTP user experience to be different from the HTTPS user experience.

```

<VirtualHost *:80>
  # <snip>

  # - absorb the shared virtual host settings
  Include eg_vhost.conf
  <Location /eg>
    PerlAddVar OILSWebTemplatePath "/openils/var/templates_custom"
  </Location>

  # <snip>
</VirtualHost>

```

Finally, reload the Apache configuration to pick up the changes. You should now be able to see your change at <http://localhost/eg/opac/advanced> where localhost is the hostname of your Evergreen server.

Adjusting colors for your public interface

You may adjust the colors of your public interface by editing the colors.tt2 file. The location of this file is in /openils/var/templates/opac/parts/css/colors.tt2. When you customize the colors of your public interface, remember to create a custom file in your custom template folder and edit the custom file and not the file located in you default template.

Adjusting fonts in your public interface

Font sizes can be changed in the colors.tt2 file located in /openils/var/templates/opac/parts/css/. Again, create and edit a custom template version and not the file in the default template.

Other aspects of fonts such as the default font family can be adjusted in /openils/var/templates/opac/css/style.css.tt2.

Media file locations in the public interface

The media files (mostly PNG images) used by the default TPAC templates are stored in the repository in Open-ILS/web/images/ and installed in /openils/var/web/images/.

Changing some text in the public interface

Out of the box, TPAC includes a number of placeholder text and links. For example, there is a set of links cleverly named Link 1, Link 2, and so on in the header and footer of every page in TPAC. Here is how to customize that for a custom templates skin.

To begin with, find the page(s) that contain the text in question. The simplest way to do that is with the grep -s command. In the following example, search for files that contain the text "Link 1":

```
bash$ grep -r "Link 1" /openils/var/templates/opac
/openils/var/templates/opac/parts/topnav_links.tt2
4:         <a href="http://example.com">[% l('Link 1') %]</a>
```

Next, copy the file into our overrides directory and edit it with vim.

Copying the links file into the overrides directory.

```
bash$ cp /openils/var/templates/opac/parts/topnav_links.tt2 \
/openils/var/templates_custom/opac/parts/topnav_links.tt2
bash$ vim /openils/var/templates_custom/opac/parts/topnav_links.tt2
```

Finally, edit the link text in opac/parts/header.tt2. Content of the opac/parts/header.tt2 file.

```
<div id="gold-links-holder">
  <div id="gold-links">
    <div id="header-links">
      <a href="http://example.com">[% l('Link 1') %]</a>
      <a href="http://example.com">[% l('Link 2') %]</a>
      <a href="http://example.com">[% l('Link 3') %]</a>
      <a href="http://example.com">[% l('Link 4') %]</a>
      <a href="http://example.com">[% l('Link 5') %]</a>
    </div>
  </div>
</div>
```

For the most part, the page looks like regular HTML, but note the [%_(" ")] that surrounds the text of each link. The [% ... %] signifies a TT block, which can contain one or more TT processing instructions. `l(" ... ")`; is a function that marks text for localization (translation); a separate process can subsequently extract localized text as GNU gettext-formatted PO (Portable Object) files.

As Evergreen supports multiple languages, any customization to Evergreen's default text must use the localization function. Also, note that the localization function supports placeholders such as `[_1]`, `[_2]` in the text; these are replaced by the contents of variables passed as extra arguments to the `l()` function.

Once the link and link text has been edited to your satisfaction, load the page in a Web browser and see the live changes immediately.

Adding translations to PO file

After you have added custom text in translatable form to a TT2 template, you need to add the custom strings and its translations to the PO file containing the translations. Evergreen PO files are stored in `/openils/var/template/data/locale/`

The PO file consists of pairs of the text extracted from the code: Message ID denoted as `msgid` and message string denoted as `msgstr`. When adding the custom string to PO file:

- The line with English expressions must start with `msgid`. The English term must be enclosed in double apostrophes.
- The line with translation start with `/msgstr/`. The translation to local language must be and enclosed in enclosed in double apostrophes.
- It is recommended to add a note in which template and on which line the particular string is located. The lines with notes must be marked as comments i.e., start with number sign (`#`)

Example:

```
# -----  
# The lines below contains the custom strings manually added to the catalog  
# -----  
  
#: ../../Open-ILS/src/custom_templates/opac/parts/topnav_links.tt2:1  
msgid "Union Catalog of the Czech Republic"  
msgstr "Souborný katalog České republiky"  
  
#: ../../Open-ILS/src/custom_templates/opac/parts/topnav_links.tt2:1  
msgid "Uniform Information Gateway "  
msgstr "Jednotná informační brána"
```



It is good practice to save backup copy of the original PO file before changing it.

After making changes, restart Apache to make the changes take effect. As root run the command:

```
service apache2 restart
```

Adding and removing MARC fields from the record details display page

It is possible to add and remove the MARC fields and subfields displayed in the record details page. In order to add MARC fields to be displayed on the details page of a record, you will need to map the MARC code to variables in the `/openils/var/templates/opac/parts/misc_util.tt2` file.

For example, to map the template variable `args.pubdates` to the date of publication MARC field 260, subfield `c`, add these lines to `misc_util.tt2`:

```
args.pubdates = [];  
FOR sub IN xml.findnodes('//*[@tag="260"]/*[@code="c"]');  
    args.pubdates.push(sub.textContent);  
END;  
args.pubdate = (args.pubdates.size) ? args.pubdates.0 : ''
```

You will then need to edit the `/openils/var/templates/opac/parts/record/summary.tt2` file in order to get the template variable for the MARC field to display.

For example, to display the date of publication code you created in the `misc_util.tt2` file, add these lines:

```
[% IF attrs.pubdate; %]  
    <span itemprop="datePublished">[% attrs.pubdate | html; %]</span>  
[% END; %]
```

You can add any MARC field to your record details page. Moreover, this approach can also be used to display MARC fields in other pages, such as your results page.

Setting the default physical location for your library environment

`physical_loc` is an Apache environment variable that sets the default physical location, used for setting search scopes and determining the order in which copies should be sorted. This variable is set in `/etc/apache2/sites-available/eg.conf`. The following example demonstrates the default physical location being set to library ID 104:

```
SetEnv physical_loc 104
```

Setting a default language and adding optional languages

`OILSWebLocale` adds support for a specific language. Add this variable to the Virtual Host section in `/etc/apache2/eg_vhost.conf`.

`OILSWebDefaultLocale` specifies which locale to display when a user lands on a page in TPAC and has not chosen a different locale from the TPAC locale picker. The following example shows the `fr_ca` locale being added to the locale picker and being set as the default locale:

```
PerlAddVar OILSWebLocale "fr_ca"  
PerlAddVar OILSWebLocale "/openils/var/data/locale/opac/fr-CA.po"
```


PerlAddVar OILSWebDefaultLocale "fr-CA"

Below is a table of the currently supported languages packaged with Evergreen:

Language	Code	PO file
Arabic - Jordan	ar_jo	/openils/var/data/locale/opac/ar-JO.po
Armenian	hy_am	/openils/var/data/locale/opac/hy-AM.po
Czech	cs_cz	/openils/var/data/locale/opac/cs-CZ.po
English - Canada	en_ca	/openils/var/data/locale/opac/en-CA.po
English - Great Britain	en_gb	/openils/var/data/locale/opac/en-GB.po
*English - United States	en_us	not applicable
French - Canada	fr_ca	/openils/var/data/locale/opac/fr-CA.po
Portuguese - Brazil	pt_br	/openils/var/data/locale/opac/pt-BR.po
Spanish	es_es	/openils/var/data/locale/opac/es-ES.po

*American English is built into Evergreen so you do not need to set up this language and there are no PO files.

Updating translations in Evergreen using current translations from Launchpad

Due to Evergreen release workflow/schedule, some language strings may already have been translated in Launchpad, but are not yet packaged with Evergreen. In such cases, it is possible to manually replace the PO file in Evergreen with an up-to-date PO file downloaded from Launchpad.

1. Visit the Evergreen translation site in [Launchpad](#)
2. Select required language (e.g. Czech or Spanish)
3. Open the tpac template and then select option Download translation. Note: to be able to download the translation file you need to be logged in to Launchpad.
4. Select PO format and submit the request for download button. You can also request for download of all existitng templates and languages at once, see <https://translations.launchpad.net/evergreen/master/+export>. The download link will be sent You to email address provided.
5. Download the file and name it according to the language used (e.g., cs-CZ.po for Czech or es-ES.po for Spanish)
6. Copy the downloaded file to /openils/var/template/data/locale. It is a good practice to backup the original PO file before.

7. Be sure that the desired language is set as default, using the [Default language](#) procedures.

Analogously, to update the web staff client translations, download the translation template webstaff and copy it to `openils/var/template/data/locale/staff`.

Changes require web server reload to take effect. As root run the command

```
service apache2 restart
```

Editing the formats select box options in the search interface.

You may wish to remove, rename or organize the options in the formats select box. This can be accomplished from the staff client.

1. From the staff client, navigate to Admin > Server Administration > Marc Coded Value Maps
2. Select Type from the Record Attribute Type select box.
3. Double click on the format type you wish to edit.

To change the label for the type, enter a value in the Search Label field.

To move the option to a top list separated by a dashed line from the others, check the Is Simple Selector check box.

To hide the type so that it does not appear in the search interface, uncheck the OPAC Visible checkbox.

Changes will be immediate.

Adding and removing search fields in advanced search

It is possible to add and remove search fields on the advanced search page by editing the `opac/parts/config.tt2` file in your template directory. Look for this section of the file:

```
search.adv_config = [  
  {adv_label => l("Item Type"), adv_attr => ["matttype", "item_type"]},  
  {adv_label => l("Item Form"), adv_attr => "item_form"},  
  {adv_label => l("Language"), adv_attr => "item_lang"},  
  {adv_label => l("Audience"), adv_attr => ["audience_group", "audience"], adv_break => 1},  
  {adv_label => l("Video Format"), adv_attr => "vr_format"},  
  {adv_label => l("Bib Level"), adv_attr => "bib_level"},  
  {adv_label => l("Literary Form"), adv_attr => "lit_form", adv_break => 1},  
  {adv_label => l("Search Library"), adv_special => "lib_selector"},  
  {adv_label => l("Publication Year"), adv_special => "pub_year"},  
  {adv_label => l("Sort Results"), adv_special => "sort_selector"},  
];
```

For example, if you delete the line:

```
{adv_label => l("Language"), adv_attr => "item_lang"},
```

the language field will no longer appear on your advanced search page. Changes will appear immediately after you save your changes.

You can also add fields based on Search Facet Groups that you create in the staff client's Local Administration menu. This can be helpful if you want to simplify your patrons' experience by presenting them with only certain limiters (e.g. the most commonly used languages in your area). To do this,

1. Click Admin → Local Administration → Search Facet Groups.
2. Click New.
3. Enter descriptive values into the code and label fields. The owner needs to be set to your consortium.
4. Once the Facet Group is created, click on the blue hyperlinked code value.
5. Click the New button to create the necessary values for your field.
6. Go to the `opac/parts/config.tt2` file, and add a line like the following, where Our Library's Field is the name you'd like to be displayed next to your field, and `facet_group_code` is the code you've added using the staff client.

```
{adv_label => l("Our Library's Field"), adv_filter => "facet_group_code"},
```

Changing the display of facets and facet groups

Facets can be reordered on the search results page by editing the `opac/parts/config.tt2` file in your template directory.

Edit the following section of `config.tt2`, changing the order of the facet categories according to your needs:

```
facet.display = [  
  {facet_class => 'author', facet_order => ['personal', 'corporate']},  
  {facet_class => 'subject', facet_order => ['topic']},  
  {facet_class => 'series', facet_order => ['seriestitle']},  
  {facet_class => 'subject', facet_order => ['name', 'geographic']}  
];
```

You may also change the default number of facets appearing under each category by editing the `facet.default_display_count` value in `config.tt2`. The default value is 5.

Change Date Format in Patron Account View

Libraries with same-day circulations may want their patrons to be able to view the due time as well as due date when they log in to their OPAC account. To accomplish this, go to `opac/myopac/circs.tt2`. Find the line that reads:

```
[% date.format(due_date, DATE_FORMAT) %]
```

Replace it with:

```
[% date.format(due_date, '%D %I:%M %p') %]
```

Including External Content in Your Public Interface

The public interface allows you to include external services and content in your public interface. These can include book cover images, user reviews, table of contents, summaries, author notes, annotations, user suggestions, series information among other services. Some of these services are free while others require a subscription.

The following are some of the external content services which you can configure in Evergreen.

OpenLibrary

The default install of Evergreen includes OpenLibrary book covers. The settings for this are controlled by the `<added_content>` section of `/openils/conf/opensrf.xml`. Here are the key elements of this configuration:

```
<module>OpenILS::WWW::AddedContent::OpenLibrary</module>
```

This section calls the OpenLibrary perl module. If you wish to link to a different book cover service other than OpenLibrary, you must refer to the location of the corresponding Perl module. You will also need to change other settings accordingly.

```
<timeout>1</timeout>
```

Max number of seconds to wait for an added content request to return data. Data not returned within the timeout is considered a failure.

```
<retry_timeout>600</retry_timeout>
```

This setting is the amount of time to wait before we try again.

```
<max_errors>15</max_errors>
```

Maximum number of consecutive lookup errors a given process can have before added content lookups are disabled for everyone. To adjust the size of the cover image on the record details page edit the `config.tt2` file and change the value of the `record.summary.jacket_size`. The default value is "medium" and the available options are "small", "medium" and "large."

ChiliFresh

ChiliFresh is a subscription-based service which allows book covers, reviews and social interaction of patrons to appear in your catalog. To activate ChiliFresh, you will need to open the Apache configuration file `/etc/apache2/eg_vhost.conf` and edit several lines:

1. Uncomment (remove the "#" at the beginning of the line) and add your ChiliFresh account number:

```
#SetEnv OILS_CHILIFRESH_ACCOUNT
```

1. Uncomment this line and add your ChiliFresh Profile:

```
#SetEnv OILS_CHILIFRESH_PROFILE
```

Uncomment the line indicating the location of the Evergreen JavaScript for ChiliFresh:

```
#SetEnv OILS_CHILIFRESH_URL http://chilifresh.com/on-site /js/evergreen.js
```

1. Uncomment the line indicating the secure URL for the Evergreen JavaScript :

```
#SetEnv OILS_CHILIFRESH_HTTPS_URL https://secure.chilifresh.com/on-site/js/evergreen.js
```

Content Café

Content Café is a subscription-based service that can add jacket images, reviews, summaries, tables of contents and book details to your records.

In order to activate Content Café, edit the `/openils/conf/opensrf.xml` file and change the `<module>` element to point to the ContentCafe Perl Module:

```
<module>OpenILS::WWW::AddedContent::ContentCafe</module>
```

To adjust settings for Content Café, edit a couple of fields with the `<ContentCafe>` Section of `/openils/conf/opensrf.xml`.

Edit the `userid` and `password` elements to match the user id and password for your Content Café account.

This provider retrieves content based on ISBN or UPC, with a default preference for ISBNs. If you wish for UPCs to be preferred, or wish one of the two identifier types to not be considered at all, you can change the "identifier_order" option in `opensrf.xml`. When the option is present, only the identifier(s) listed will be sent.

Obalkyknih.cz

Setting up Obalkyknih.cz account

If your library wishes to use added content provided by Obalkyknih.cz, a service based in the Czech Republic, you have to [create an Obalkyknih.cz account](#). Please note that the interface is only available in Czech. After logging in your Obalkyknih.cz account, you have to add your IP address and Evergreen server address to your account settings. (In case each library uses an address of its own, all of these addresses have to be added.)

Enabling Obalkyknih.cz in Evergreen

Set `obalkyknih_cz.enabled` to `true` in `/openils/var/templates/opac/parts/config.tt2`:

```
obalkyknih_cz.enabled = 'true';
```

Enable added content from Obalkyknih.cz in `/openils/conf/opensrf.xml` configuration file (and – at the same time – disable added content from Open Library, i.e., Evergreen’s default added content provider):

```
<!-- <module>OpenILS::WWW::AddedContent::OpenLibrary</module> -->  
<module>OpenILS::WWW::AddedContent::ObalkyKnih</module>
```

Using default settings for Obalkyknih.cz means all types of added content from Obalkyknih.cz are visible in your online catalog. If the module is enabled, book covers are always displayed. Other types of added content (summaries, ratings or tables of contents) can be:

- switched off using false option,
- switched on again using true option.

The following types of added content are used:

- summary (or annotation)
- tocPDF (table of contents available as image)
- tocText (table of contents available as text)
- review (user reviews)

An example of how to switch off summaries:

```
<summary>false</summary>
```

Google Analytics

Google Analytics is a free service to collect statistics for your Evergreen site. Statistic tracking is disabled by default through the Evergreen client software when library staff use your site within the client, but active when anyone uses the site without the client. This was a preventive measure to reduce the potential risks for leaking patron information. In order to use Google Analytics you will first need to set up the service from the Google Analytics website at <http://www.google.com/analytics/>. To activate Google Analytics you will need to edit config.tt2 in your template. To enable the service set the value of google_analytics.enabled to true and change the value of google_analytics.code to be the code in your Google Analytics account.

NoveList

Novelist is a subscription-based service providing reviews and recommendation for books in you catalog. To activate your Novelist service in Evergreen, open the Apache configuration file /etc/apache2/eg_vhost.conf and edit the line:

```
#SetEnv OILS_NOVELIST_URL
```

You should use the URL provided by NoveList.

RefWorks

RefWorks is a subscription-based online bibliographic management tool. If you have a RefWorks subscription, you can activate RefWorks in Evergreen by editing the config.tt2 file located in your template directory. You will need to set the ctx.refworks.enabled value to true. You may also set the RefWorks URL by changing the ctx.refworks.url setting on the same file.

SFX OpenURL Resolver

An OpenURL resolver allows you to find electronic resources and pull them into your catalog based on the ISBN or ISSN of the item. In order to use the SFX OpenURL resolver, you will need to subscribe to the Ex Libris SFX service. To activate the service in Evergreen edit the config.tt2 file in your

template. Enable the resolver by changing the value of `openurl.enabled` to `true` and change the `openurl.baseurl` setting to point to the URL of your OpenURL resolver.

Syndetic Solutions

Syndetic Solutions is a subscription service providing book covers and other data for items in your catalog. In order to activate Syndetic, edit the `/openils/conf/opensrf.xml` file and change the `<module>` element to point to the Syndetic Perl Module:

```
<module>OpenILS::WWW::AddedContent::Syndetic</module>
```

You will also need to edit the `<userid>` element to be the user id provided to you by Syndetic.

Then, you will need to uncomment and edit the `<base_url>` element so that it points to the Syndetic service:

```
<base_url>http://syndetics.com/index.aspx</base_url>
```

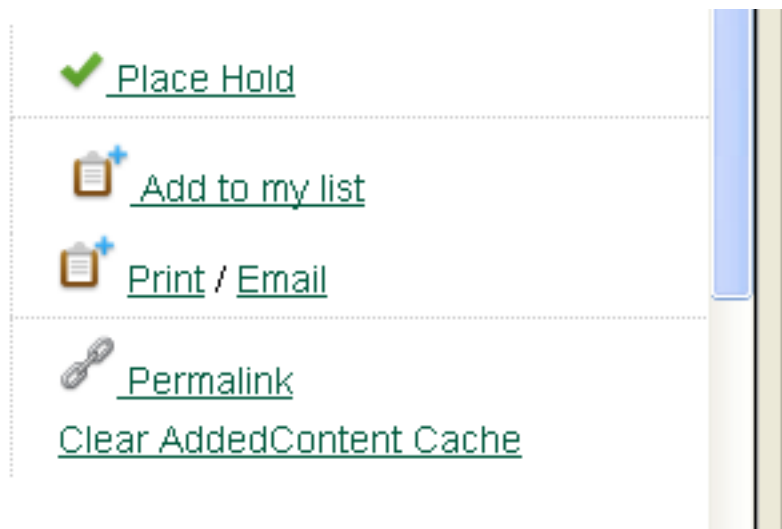
For changes to be activated for your public interface you will need to restart Evergreen and Apache.

The Syndetic Solutions provider retrieves images based on the following identifiers found in bibliographic records:

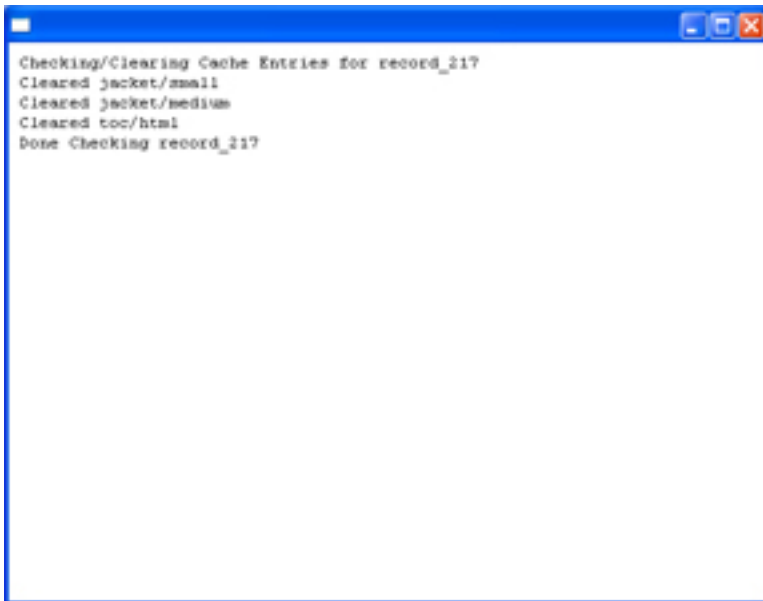
- ISBN
- UPC
- ISSN

Clear External/Added Content Cache

On the catalog's record summary page, there is a link for staff that will forcibly clear the cache of the Added Content for that record. This is helpful for when the Added Content retrieved the wrong cover jacket art, summary, etc. and caches the wrong result.



Once clicked, there is a pop up that will display what was cleared from the cache.

A terminal window with a blue title bar and standard window controls. The text inside the terminal reads: "Checking/Clearing Cache Entries for record_217", "Cleared jacket/small", "Cleared jacket/medium", "Cleared toc/html", and "Done Checking record_217".

```
Checking/Clearing Cache Entries for record_217
Cleared jacket/small
Cleared jacket/medium
Cleared toc/html
Done Checking record_217
```

You will need to reload the record in the staff client to obtain the new images from your Added Content Supplier.

Configure a Custom Image for Missing Images

You can configure a "no image" image other than the standard 1-pixel blank image. The example `eg_vhost.conf` file provides examples in the comments. Note: Evergreen does not provide default images for these.

Including Locally Hosted Content in Your Public Interface

It is also possible to show added content that has been generated locally by placing the content in a specific spot on the web server. It is possible to have local book jackets, reviews, TOC, excerpts or annotations.

File Location and Format

By default the files will need to be placed in directories under `/openils/var/web/opac/extras/ac/` on the server(s) that run Apache.

The files need to be in specific folders depending on the format of the added content. Local Content can only be looked up based on the record ID at this time.

URL Format: `http://catalog/opac/extras/ac/{type}/{format}/r/{recordid}`

- type is one of jacket, reviews, toc, excerpt or anotes.
- format is type dependent:

- for jacket, one of small, medium or large
- others, one of html, xml or json ... html is the default for non-image added content
- recordid is the bibliographic record id (bre.id).

Example

If you have some equipment that you are circulating such as a laptop or eBook reader and you want to add an image of the equipment that will show up in the catalog.



If you are adding jacket art for a traditional type of media (book, CD, DVD) consider adding the jacket art to the <http://openlibrary.org> project instead of hosting it locally. This would allow other libraries to benefit from your work.

Make note of the Record ID of the bib record. You can find this by looking at the URL of the bib in the catalog. <http://catalog/eg/opac/record/123>, 123 is the record ID. These images will only show up for one specific record.

Create 3 different sized versions of the image in png or jpg format.

- Small - 80px x 80px - named 123-s.jpg or 123-s.png - This is displayed in the browse display.
- Medium - 240px x 240px - named 123-m.jpg or 123-m.png - This is displayed on the summary page.
- Large - 400px x 399px - named 123-l.jpg or 123-l.png - This is displayed if the summary page image is clicked on.



The image dimensions are up to you, use what looks good in your catalog.

Next, upload the images to the evergreen server(s) that run apache, and move/rename the files to the following locations/name. You will need to create directories that are missing.

- Small - Move the file 123-s.jpg to /openils/var/web/opac/extras/ac/jacket/small/r/123
- Medium - Move the file 123-m.jpg to /openils/var/web/opac/extras/ac/jacket/medum/r/123.
- Large - Move the file 123-l.jpg to /openils/var/web/opac/extras/ac/jacket/large/r/123.



The system doesn't need the file extension to know what kind of file it is.

Reload the bib record summary in the web catalog and your new image will display.

Sitemap generator

A [sitemap](#) directs search engines to the pages of interest in a web site so that the search engines can intelligently crawl your site. In the case of Evergreen, the primary pages of interest are the bibliographic record detail pages.

The sitemap generator script creates sitemaps that adhere to the <http://sitemaps.org> specification, including:

- limiting the number of URLs per sitemap file to no more than 50,000 URLs;
- providing the date that the bibliographic record was last edited, so that once a search engine has crawled all of your sites' record detail pages, it only has to reindex those pages that are new or have changed since the last crawl;
- generating a sitemap index file that points to each of the sitemap files.

Running the sitemap generator

The `sitemap_generator` script must be invoked with the following argument:

- **--lib-hostname**: specifies the hostname for the catalog (for example, **--lib-hostname https://catalog.example.com**); all URLs will be generated appended to this hostname

Therefore, the following arguments are useful for generating multiple sitemaps per Evergreen instance:

- **--lib-shortname**: limit the list of record URLs to those which have copies owned by the designated library or any of its children;
- **--prefix**: provides a prefix for the sitemap index file names

Other options enable you to override the OpenSRF configuration file and the database connection credentials, but the default settings are generally fine.

Note that on very large Evergreen instances, sitemaps can consume hundreds of megabytes of disk space, so ensure that your Evergreen instance has enough room before running the script.

Scheduling

To enable search engines to maintain a fresh index of your bibliographic records, you may want to include the script in your cron jobs on a nightly or weekly basis.

Sitemap files are generated in the same directory from which the script is invoked, so a cron entry will look something like:

```
12 2 * * * cd /openils/var/web && /openils/bin/sitemap_generator
```

Troubleshooting TPAC errors

If there is a problem such as a TT syntax error, it generally shows up as an ugly server failure page. If you check the Apache error logs, you will probably find some solid clues about the reason for the failure. For example, in the following example, the error message identifies the file in which the problem occurred as well as the relevant line numbers.

Example error message in Apache error logs:

```
bash# grep "template error" /var/log/apache2/error_log
[Tue Dec 06 02:12:09 2011] [warn] [client 127.0.0.1] egweb: template error:
file error - parse error - opac/parts/record/summary.tt2 line 112-121:
unexpected token (!=)\n [% last_cn = 0;\n          FOR copy_info IN
ctx.copies;\n          callnum = copy_info.call_number_label;\n
```

Chapter 31. Borrowing items: who, what, for how long

Circulation policies pull together user, library, and item data to determine how library materials circulate, such as: which patrons, from what libraries can borrow what types of materials, for how long, and with what overdue fines.

Individual elements of the circulation policies are configured using specific interfaces, and should be configured prior to setting up the circulation policies.

Data elements that affect your circulation policies

There are a few data elements which must be considered when setting up your circulation policies.

Copy data

Several fields set via the copy editor are commonly used to affect the circulation of an item.

- Circulation modifier - Circulation modifiers are fields used to control circulation policies on specific groups of items. They can be added to copies during the cataloging process. New circulation modifiers can be created in the staff client by navigating to Admin > Server Administration > Circulation Modifiers.
- Circulate? flag - The circulate? flag in the copy editor can be set to False to disallow an item from circulating.
- Reference? flag - The reference? flag in the copy editor can also be used as a data element in circulation policies.

Copy location data

- To get to the Copy Locations Editor, navigate to Admin > Local Administration > Copy Locations Editor.
- Set OPAC Visible to "No" to hide all copies in a copy location from the public catalog. (You can also hide individual copies using the Copy Editor.)
- Set Hold Verify to "Yes" if when a copy checks in you want to always ask for staff confirmation before capturing a hold.
- Set Checkin Alert to "Yes" to allow routing alerts to display when copies are checked in.
- Set Holdable to "No" to prevent copies in an entire copy location from being placed on hold.
- Set Circulate to "No" to disallow circulating copies in an entire copy location.

- If you delete a copy location, it will be removed from display in the staff client and the catalog, but it will remain in the database. This allows you to treat a copy location as deleted without losing statistical information for circulations related to that copy location.

Copy Locations Editor

Welcome **admin**

Create a new copy location			
Name:	<input type="text"/>	Holdable:	Yes <input type="radio"/> No <input checked="" type="radio"/>
OPAC Visible:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Circulate:	Yes <input type="radio"/> No <input checked="" type="radio"/>
Hold Verify:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Owning Library:	CONS <input type="text"/>
Checkin Alert:	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Label prefix:	<input type="text"/>	Label suffix:	<input type="text"/>
<input type="button" value="Create a new copy location"/>			

Focus Location: BR1

Name:	Owning Library	Holdable	Hold Verify	OPAC Visible	Circulate	Checkin Alert	Label prefix	Label suffix	Edit	Delete
Location 1 <input type="button" value="Translate"/>	CONS	✓	✓	✓	✓	✗			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>
Stacks <input type="button" value="Translate"/>	CONS	✓	✓	✓	✓	✗			<input type="button" value="Edit"/>	<input type="button" value="Delete"/>

- Copy locations can also be used as a data element in circulation policies.

User data

Finally, several characteristics of specific patrons can affect circulation policies. You may modify these characteristics in Search → Search for Patrons or Circulation → Register Patron.

- The user permission group is also commonly used as a data element in circulation policies.
- Other user data that can be used for circulation policies include the juvenile flag in the user record.

Circulation Rules

Loan duration describes the length of time for a checkout. You can also identify the maximum renewals that can be placed on an item.

You can find Circulation Duration Rules by navigating to Admin > Server Administration > Circulation Duration Rules.

Circ Duration Rules

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✓	#	name	max_renewals	shrt	normal	extended
<input type="checkbox"/>	1	21d_1r	1	21 days	21 days	21 days
<input type="checkbox"/>	2	21d_0r	0	21 days	21 days	21 days
<input type="checkbox"/>	3	14d_1r	1	14 days	14 days	14 days
<input type="checkbox"/>	4	3d_0r	0	3 days	3 days	3 days
<input type="checkbox"/>	5	7d_0r	0	7 days	7 days	7 days
<input type="checkbox"/>	6	1d_0r	0	1 day	1 day	1 day
<input type="checkbox"/>	7	2d_0r	0	2 days	2 days	2 days
<input type="checkbox"/>	8	35d_1r	1	35 days	35 days	35 days
<input type="checkbox"/>	9	21d_3r	3	21 days	21 days	21 days
<input type="checkbox"/>	10	7d_1r	1	7 days	7 days	7 days
<input type="checkbox"/>	11	2d_1r	1	2 days	2 days	2 days
<input type="checkbox"/>	12	14d_2r	2	14 days	14 days	14 days

Recurring fine describes the amount assessed for daily and hourly fines as well as fines set for other regular intervals. You can also identify any grace periods that should be applied before the fine starts accruing.

You can find Recurring Fine Rules by navigating to Admin > Server Administration > Circulation Recurring Fine Rules.

Recurring Fine Rules

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✓	#	name	recurrence_int	low	normal	high	grace_period
<input type="checkbox"/>	1	10c_pd	1 day	0.10	0.10	0.10	00:00:00
<input type="checkbox"/>	2	2d_pd	1 day	2.00	2.00	2.00	00:00:00
<input type="checkbox"/>	3	1d_pd	1 day	1.00	1.00	1.00	00:00:00
<input type="checkbox"/>	4	10d_pd	1 day	10.00	10.00	10.00	00:00:00
<input type="checkbox"/>	5	50c_pd	1 day	0.50	0.50	0.50	00:00:00
<input type="checkbox"/>	6	0c_pd	1 day	0.00	0.00	0.00	00:00:00
<input type="checkbox"/>	7	5c_pd	1 day	0.05	0.05	0.05	00:00:00
<input type="checkbox"/>	8	5d_pd	1 day	5.00	5.00	5.00	00:00:00
<input type="checkbox"/>	9	25c_pd	1 day	0.25	0.25	0.25	00:00:00
<input type="checkbox"/>	10	25d_pd	1 day	25.00	25.00	25.00	00:00:00
<input type="checkbox"/>	11	15c_pd	1 day	0.15	0.15	0.15	00:00:00
<input type="checkbox"/>	12	20c_pd	1 day	0.20	0.20	0.20	00:00:00
<input type="checkbox"/>	13	3d pd	1 day	3.00	3.00	3.00	00:00:00

Max fine describes the maximum amount of fines that will be assessed for a specific circulation. Set the Use Percent field to True if the maximum fine should be a percentage of the item's price.

You can find Circ Max Fine Rules by navigating to Admin > Server Administration > Circulation Max Fine Rules.

Circ Max Fine Rules

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✓	#	Rule Name	Max Fine Amount	Is Percent
<input type="checkbox"/>	1	10d_max_fine	10.00	False
<input type="checkbox"/>	2	40d_max_fine	40.00	False
<input type="checkbox"/>	3	5d_max_fine	5.00	False
<input type="checkbox"/>	4	999d_max_fine	999.00	False
<input type="checkbox"/>	5	0d_max_fine	0.00	False
<input type="checkbox"/>	6	2d_max_fine	2.00	False
<input type="checkbox"/>	7	25d_max_fine	25.00	False
<input type="checkbox"/>	8	100d_max_fine	100.00	False
<input type="checkbox"/>	9	30d_max_fine	30.00	False
<input type="checkbox"/>	10	6d_max_fine	6.00	False
<input type="checkbox"/>	11	22d_max_fine	22.00	False
<input type="checkbox"/>	12	150d_max_fine	150.00	False
<input type="checkbox"/>	13	20d_max_fine	20.00	False
<input type="checkbox"/>	14	15d_max_fine	15.00	False
<input type="checkbox"/>	15	50d_max_fine	50.00	False

These rules generally cause the most variation between organizational units.

Loan duration and recurring fine rate are designed with 3 levels: short, normal, and extended loan duration, and low, normal, and high recurring fine rate. These values are applied to specific items, when copy records are created.

When naming these rules, give them a name that clearly identifies what the rule does. This will make it easier to select the correct rule when creating your circ policies.

Circulation Limit Sets

Circulation Limit Sets allow you to limit the maximum number of copies for different types of materials that a patron can check out at one time. Evergreen supports creating these limits based on circulation modifiers, copy locations, or circ limit groups, which allow you to create limits based on MARC data. The below instructions will allow you to create limits based on circulation modifiers.

- Configure the circulation limit sets by selecting Admin > Local Administration > Circulation Limit Sets.
- Items Out - the maximum number of items circulated to a patron at the same time.
- Depth - Enter the Min Depth, or the minimum depth, in the org tree that Evergreen will consider as valid circulation libraries for counting items out. The min depth is based on org unit type

depths. For example, if you want the items in all of the circulating libraries in your consortium to be eligible for restriction by this limit set when it is applied to a circulation policy, then enter a zero (0) in this field.

- Global - Check the box adjacent to Global Flag if you want all of the org units in your consortium to be restricted by this limit set when it is applied to a circulation policy. Otherwise, Evergreen will only apply the limit to the direct ancestors and descendants of the owning library.
- Linked Limit Groups - add any circulation modifiers, copy locations, or circ limit groups that should be part of this limit set.

Example Your library (BR1) allows patrons to check out up to 5 videos at one time. This checkout limit should apply when your library's videos are checked out at any library in the consortium. Items with DVD, BLURAY, and VHS circ modifiers should be included in this maximum checkout count.

To create this limit set, you would add 5 to the Items Out field, 0 to the Depth field and select the Global Flag. Add the DVD, BLURAY and VHS circ modifiers to the limit set.

Creating Circulation Policies

Once you have identified your data elements that will drive circulation policies and have created your circulation rules, you are ready to begin creating your circulation policies.

If you are managing a small number of rules, you can create and manage circulation policies in the staff client via Admin > Local Administration > Circulation Policies. However, if you are managing a large number of policies, it is easier to create and locate rules directly in the database by updating `config.circ_matrix_matchpoint`.

The `config.circ_matrix_matchpoint` table is central to the configuration of circulation parameters. It collects the main set of data used to determine what rules apply to any given circulation. It is useful for us to think of their columns in terms of match columns, those that are used to match the particulars of a given circulation transaction, and result columns, those that return the various parameters that are applied to the matching transaction.

- Circulation policies by checkout library or owning library?
 - If your policies should follow the rules of the library that checks out the item, select the checkout library as the Org Unit(`org_unit`).
 - If your policies should follow the rules of the library that owns the item, select the consortium as the Org Unit (`org_unit`) and select the owning library as the Copy Circ Lib (`copy_circ_lib`).
- Renewal policies can be created by setting Renewals? (`is_renewal`) to True.
- You can apply the duration rules, recurring fine rules, maximum fine rules, and circulation sets created in the above sets when creating the circulation policy.

Best practices for creating policies

- Start by replacing the default consortium-level circ policy with one that contains a majority of your libraries' duration, recurring fine, and max fine rules. This first rule will serve as a default for all materials and permission groups.

- If many libraries in your consortium have rules that differ from the default for particular materials or people, set a consortium-wide policy for that circ modifier or that permission group.
- After setting these consortium defaults, if a library has a circulation rule that differs from the default, you can then create a rule for that library. You only need to change the parameters that are different from the default parameters. The rule will inherit the values for the other parameters from that default consortium rule.
- Try to avoid unnecessary repetition.
- Try to get as much agreement as possible among the libraries in your consortium.

Example 1

org_unit	duration_rule	recurring_fine_rule	max_fine_rule
CONS	21_day_2_renew	NONE	NONE
SYS1	NULL	25_cents	3_dollars

In this example, the consortium has decided on a 21_day_2_renew loan rule for general materials, i.e. books, etc. Most members do not charge overdue fines. System 1 charges 25 cents per day to a maximum of \$3.00, but otherwise uses the default circulation duration.

Example 2

org_unit	grp	circ_modifier	circulate	duration_rule	recurring_fine_rule	max_fine_rule
CONS	Users	book	TRUE	21_day_2_renew	5_cents	2_dollars
CONS	Users	dvd	FALSE	14_day_1_renew	25_cents	5_dollars
CONS	Users	music	TRUE	14_day_2_renew	10_cents	3_dollars

This example includes a basic set of fields and creates a situation where items with a circ modifier of "book" or "music" can be checked out, but "dvd" items will not circulate. The associated rules would apply during checkouts.

Example 3

org_unit	grp	circ_modifier	circulate	duration_rule	recurring_fine_rule	max_fine_rule
CONS	Users	book	TRUE	21_day_2_renew	5_cents	2_dollars
CONS	Users	dvd	FALSE	14_day_1_renew	25_cents	5_dollars
SYS1	Adult	dvd	TRUE	14_day_1_renew	25_cents	5_dollars
CONS	Users	music	TRUE	14_day_2_renew	10_cents	3_dollars
SYS2	Users	music	FALSE	14_day_2_renew	10_cents	3_dollars
BR3	Users	music	TRUE	14_day_2_renew	10_cents	3_dollars

This example builds on the earlier example and adds some more complicated options.

It is still true that "book" and "music" items can be checked out, while "dvd" is not circulated. However, now we have added new rules that state that "Adult" patrons of "SYS1" can circulate "dvd" items.

Settings Relevant to Circulation

The following circulation settings, available via Admin > Local Administration > Library Settings Editor, can also affect your circulation duration, renewals and fine policy.

- Auto-Extend Grace Periods - When enabled, grace periods will auto-extend. By default this will be only when they are a full day or more and end on a closed date, though other options can alter this.
- Auto-Extending Grace Periods extend for all closed dates - If enabled and Grace Periods auto-extending is turned on, grace periods will extend past all closed dates they intersect, within hard-coded limits.
- Auto-Extending Grace Periods include trailing closed dates - If enabled and Grace Periods auto-extending is turned on, grace periods will include closed dates that directly follow the last day of the grace period.
- Checkout auto renew age - When an item has been checked out for at least this amount of time, an attempt to check out the item to the patron that it is already checked out to will simply renew the circulation.
- Cap Max Fine at Item Price - This prevents the system from charging more than the item price in overdue fines.

- Lost Item Billing: New Min/Max Price Settings - Patrons will be billed at least the Min Price and at most the Max price, even if the item's price is outside that range. To set a fixed price for all lost items, set min and max to the same amount.
- Charge fines on overdue circulations when closed - Normally, fines are not charged when a library is closed. When set to True, fines will be charged during scheduled closings and normal weekly closed days.

Chapter 32. Hard due dates

This feature allows you to specify a specific due date within your circulation policies. This is particularly useful for academic and school libraries, who may wish to make certain items due at the end of a semester or term.



To work with hard due dates, you will need the `CREATE_CIRC_DURATION`, `UPDATE_CIRC_DURATION`, and `DELETE_CIRC_DURATION` permissions at the consortium level.

Creating a hard due date

Setting up hard due dates is a two-step process. You must first create a hard due date, and then populate it with specific values.

To create a hard due date:

1. Click Admin → Server Administration → Hard Due Date Changes.
2. Click New Hard Due Date.
3. In the Name field, enter a name for your hard due date. Note that each hard due date can have multiple values, so it's best to use a generic name here, such as "End of semester."
4. In the Owner field, select the appropriate org unit for your new hard due date.
5. In the Current Ceiling Date field, select any value. This field is required, but its value will be overwritten in subsequent steps, so you may enter an arbitrary date here.
6. Check the Always Use? checkbox if you want items to only receive the due dates you specify, regardless of when they would ordinarily be due. If you leave this box unchecked, your specified due dates will serve as "ceiling" values that limit, rather than override, other circulation rules. In other words, with this box checked, items may be due only on the specified dates. With the box unchecked, items may be due on or before the specified dates, simply not after.
7. Click Save.

To add date values to your hard due date:

1. Click the hyperlinked name of the due date you just created.
2. Click on New Hard Due Date Value
3. In the Ceiling Date field, enter the specific date you would like items to be due.
4. In the Active Date field, enter the date you want this specific due date value to take effect.
5. Click Save.

6. Each Hard Due Date can include multiple values. For example, you can repeat these steps to enter specific due dates for several semesters using this same screen.

After creating a hard due date and assigning it values, you can apply it by adding it to a circulation policy.

Chapter 33. TPac Configuration and Customization

Template toolkit documentation

For more general information about template toolkit see: [official documentation](#).

The purpose of this chapter is to focus on the Evergreen-specific uses of Template Toolkit (TT) in the OPAC.

TPAC URL

The URL for the TPAC on a default Evergreen system is <http://localhost/eg/opac/home> (adjust **localhost** to match your hostname or IP address, naturally!)

Perl modules used directly by TPAC

- `Open-ILS/src/perlmods/lib/OpenILS/WWW/EGCatLoader.pm`
- `Open-ILS/src/perlmods/lib/OpenILS/WWW/EGCatLoader/Account.pm`
- `Open-ILS/src/perlmods/lib/OpenILS/WWW/EGCatLoader/Container.pm`
- `Open-ILS/src/perlmods/lib/OpenILS/WWW/EGCatLoader/Record.pm`
- `Open-ILS/src/perlmods/lib/OpenILS/WWW/EGCatLoader/Search.pm`
- `Open-ILS/src/perlmods/lib/OpenILS/WWW/EGCatLoader/Util.pm`

Default templates

The source template files are found in `Open-ILS/src/templates/opac`.

These template files are installed in `/openils/var/templates/opac`.

NOTE. You should generally avoid touching the installed default template files, unless you are contributing changes that you want Evergreen to adopt as a new default. Even then, while you are developing your changes, consider using template overrides rather than touching the installed templates until you are ready to commit the changes to a branch. See below for information on template overrides.

Apache configuration files

The base Evergreen configuration file on Debian-based systems can be found in `/etc/apache2/sites-enabled/eg.conf`. This file defines the basic virtual host configuration for Evergreen

(hostnames and ports), then single-sources the bulk of the configuration for each virtual host by including `/etc/apache2/eg_vhost.conf`.

TPAC CSS and media files

The CSS files used by the default TPAC templates are stored in the repo in `Open-ILS/web/css/skin/default/opac/` and installed in `/openils/var/web/css/skin/default/opac/`.

The media files—mostly PNG images—used by the default TPAC templates are stored in the repo in `Open-ILS/web/images/` and installed in `/openils/var/web/images/`.

Mapping templates to URLs

The mapping for templates to URLs is straightforward. Following are a few examples, where `<templates>` is a placeholder for one or more directories that will be searched for a match:

- `http://localhost/eg/opac/home` ⇒ `/openils/var/<templates>/opac/home.tt2`
- `http://localhost/eg/opac/advanced` ⇒ `/openils/var/<templates>/opac/advanced.tt2`
- `http://localhost/eg/opac/results` ⇒ `/openils/var/<templates>/opac/results.tt2`

The template files themselves can process, be wrapped by, or include other template files. For example, the `home.tt2` template currently involves a number of other template files to generate a single HTML file:

Example Template Toolkit file: `opac/home.tt2`.

```
[% PROCESS "opac/parts/header.tt2";
WRAPPER "opac/parts/base.tt2";
INCLUDE "opac/parts/topnav.tt2";
ctx.page_title = l("Home") %]
<div id="search-wrapper">
  [% INCLUDE "opac/parts/searchbar.tt2" %]
</div>
<div id="content-wrapper">
  <div id="main-content-home">
    <div class="common-full-pad"></div>
    [% INCLUDE "opac/parts/homesearch.tt2" %]
    <div class="common-full-pad"></div>
  </div>
</div>
[% END %]
```

We will dissect this example in some more detail later, but the important thing to note is that the file references are relative to the top of the template directory.

How to override templates

Overrides for templates go in a directory that parallels the structure of the default templates directory. The overrides then get pulled in via the Apache configuration.

In the following example, we demonstrate how to create a file that overrides the default "Advanced search page" (**advanced.tt2**) by adding a new templates directory and editing the new file in that directory.

Adding an override for the Advanced search page (example).

```
bash$ mkdir -p /openils/var/templates_custom/opac
bash$ cp /openils/var/templates/opac/advanced.tt2 \
    /openils/var/templates_custom/opac/.
bash$ vim /openils/var/templates_custom/opac/advanced.tt2
```

We now need to teach Apache about the new templates directory. Open **eg.conf** and add the following **<Location /eg>** element to each of the **<VirtualHost>** elements in which you want to include the overrides. The default Evergreen configuration includes a **VirtualHost** directive for port 80 (HTTP) and another one for port 443 (HTTPS); you probably want to edit both, unless you want the HTTP user experience to be different from the HTTPS user experience.

Configuring the custom templates directory in Apache's eg.conf.

```
<VirtualHost *:80>
  # <snip>

  # - absorb the shared virtual host settings
  Include eg_vhost.conf
  <Location /eg>
    PerlAddVar OILSWebTemplatePath "/openils/var/templates_algoma"
  </Location>

  # <snip>
</VirtualHost>
```

Finally, reload the Apache configuration to pick up the changes:

Reloading the Apache configuration.

```
bash# /etc/init.d/apache2 reload
```

You should now be able to see your change at <http://localhost/eg/opac/advanced>

Defining multiple layers of overrides

You can define multiple layers of overrides, so if you want every library in your consortium to have the same basic customizations, and then apply library-specific customizations, you can define two template directories for each library.

In the following example, we define the **template_CONS** directory as the set of customizations to apply to all libraries, and **template_BR#** as the set of customizations to apply to library BR1 and BR2.

As the consortial customizations apply to all libraries, we can add the extra template directory directly to **eg_vhost.conf**:

Apache configuration for all libraries (eg_vhost.conf).

```
# Templates will be loaded from the following paths in reverse order.
PerlAddVar OILSWebTemplatePath "/openils/var/templates"
PerlAddVar OILSWebTemplatePath "/openils/var/templates_CONS"
```

Then we define a virtual host for each library to add the second layer of customized templates on a per-library basis. Note that for the sake of brevity we only show the configuration for port 80.

Apache configuration for each virtual host (eg.conf).

```
<VirtualHost *:80>
  ServerName br1.concat.ca
  DocumentRoot /openils/var/web/
  DirectoryIndex index.html index.xhtml
  Include eg_vhost.conf
  <Location /eg>
    PerlAddVar OILSWebTemplatePath "/openils/var/templates_BR1"
  </Location>
</VirtualHost>

<VirtualHost *:80>
  ServerName br2.concat.ca
  DocumentRoot /openils/var/web/
  DirectoryIndex index.html index.xhtml
  Include eg_vhost.conf
  <Location /eg>
    PerlAddVar OILSWebTemplatePath "/openils/var/templates_BR2"
  </Location>
</VirtualHost>
```

Changing some text in the TPAC

Out of the box, the TPAC includes a number of placeholder text and links. For example, there is a set of links cleverly named Link 1, Link 2, and so on in the header and footer of every page in the TPAC. Let's customize that for our **templates_BR1** skin.

To begin with, we need to find the page(s) that contain the text in question. The simplest way to do that is with the handy utility **ack**, which is much like **grep** but with built-in recursion and other tricks. On Debian-based systems, the command is **ack-grep** as **ack** conflicts with an existing utility. In the following example, we search for files that contain the text "Link 1":

Searching for text matching "Link 1".

```
bash$ ack-grep "Link 1" /openils/var/templates/opac
/openils/var/templates/opac/parts/topnav_links.tt2
4:          <a href="http://example.com">[% l('Link 1') %]</a>
```

Next, we copy the file into our overrides directory and edit it with **vim**:

Copying the links file into the overrides directory.

```
bash$ cp /openils/var/templates/opac/parts/topnav_links.tt2 \
/openils/var/templates_BR1/opac/parts/topnav_links.tt2
bash$ vim /openils/var/templates_BR1/opac/parts/topnav_links.tt2
```

Finally, we edit the link text in **opac/parts/header.tt2**.

Content of the opac/parts/header.tt2 file.

```
<div id="gold-links-holder">
  <div id="gold-links">
    <div id="header-links">
      <a href="http://example.com">[% l('Link 1') %]</a>
      <a href="http://example.com">[% l('Link 2') %]</a>
      <a href="http://example.com">[% l('Link 3') %]</a>
```

```

        <a href="http://example.com">[% l('Link 4') %]</a>
        <a href="http://example.com">[% l('Link 5') %]</a>
    </div>
</div>

```

For the most part, the page looks like regular HTML, but note the [%_(" ")%] that surrounds the text of each link. The [% ... %] signifies a TT block, which can contain one or more TT processing instructions. `l(" ... ")`; is a function that marks text for localization (translation); a separate process can subsequently extract localized text as GNU gettext-formatted PO files.

NOTE. As Evergreen supports multiple languages, any customizations to Evergreen's default text must use the localization function. Also, note that the localization function supports placeholders such as `[_1]`, `[_2]` in the text; these are replaced by the contents of variables passed as extra arguments to the `l()` function.

Once we have edited the link and link text to our satisfaction, we can load the page in our Web browser and see the live changes immediately (assuming we are looking at the BR1 overrides, of course).

Troubleshooting

If there is a problem such as a TT syntax error, it generally shows up as a an ugly server failure page. If you check the Apache error logs, you will probably find some solid clues about the reason for the failure. For example, in the following example the error message identifies the file in which the problem occurred as well as the relevant line numbers:

Example error message in Apache error logs.

```

bash# grep "template error" /var/log/apache2/error_log
[Tue Dec 06 02:12:09 2011] [warn] [client 127.0.0.1] egweb: template error:
file error - parse error - opac/parts/record/summary.tt2 line 112-121:
unexpected token (!=)\n [% last_cn = 0;\n          FOR copy_info IN
ctx.copies;\n          callnum = copy_info.call_number_label;\n

```

Chapter 34. Creating a New Skin: the Bare Minimum

When you adopt the TPAC as your catalog, you must create a new skin. This involves a combination of overriding template files and setting Apache directives to control the look and feel of your customized TPAC.

Apache directives

There are a few Apache directives and environment variables of note for customizing TPAC behavior. These directives should generally live within a **<vhost>** section of your Apache configuration.

- **OILSWebDefaultLocale** specifies which locale to display when a user lands on a page in the TPAC and has not chosen a different locale from the TPAC locale picker. The following example shows the **fr_ca** locale being added to the locale picker and being set as the default locale:

```
PerlAddVar OILSWebLocale "fr_ca"  
PerlAddVar OILSWebLocale "/openils/var/data/locale/opac/fr-CA.po"  
PerlAddVar OILSWebDefaultLocale "fr-CA"
```

- **physical_loc** is an Apache environment variable that sets the default physical location, used for setting search scopes and determining the order in which copies should be sorted. The following example demonstrates the default physical location being set to library ID 104:

```
SetEnv physical_loc 104
```

Customizing templates

When you install Evergreen, the TPAC templates include many placeholder images, text, and links. You should override most of these to provide your users with a custom experience that matches your library. Following is a list of templates that include placeholder images, text, or links that you should override.



All paths are relative to **/openils/var/templates/opac**

- **parts/config.tt2**: contains many configuration settings that affect the behavior of the TPAC, including:
 - hiding the Place Hold button for available items
 - enabling RefWorks support for citation management
 - adding OpenURL resolution for electronic resources
 - enabling Google Analytics tracking for your TPAC

- displaying the "Forgot your password?" prompt
- controlling the size of cover art on the record details page
- defining which facets to display, and in which order
- controlling basic and advanced search options
- controlling if the "Show More Details" button is visible or activated by default in OPAC search results
- hiding phone notification options (useful for libraries that do not do phone notifications)
- disallowing password or e-mail changes (useful for libraries that use centralized authentication or single sign-on systems)
- displaying a maintenance message in the public catalog and KPAC (this is controlled by the `ctx.maintenance_message` variable)
- displaying previews of books when available from Google Books. This is controlled by the `ctx.google_books_preview` variable, which is set to 0 by default to protect the privacy of users who might not want to share their browsing behavior with Google.
- disabling the "Group Formats and Editions" search. This is controlled by setting the `metarecords.disabled` variable to 1.
- setting the default search to a Group Formats and Editions search. This is done by setting the `search.metarecord_default` variable to 1.
- **parts/footer.tt2** and **parts/topnav_links.tt2**: contains customizable links. Defaults like Link 1 will not mean much to your users!
- **parts/homesearch.tt2**: holds the large Evergreen logo on the home page of the TPAC. Substitute your library's logo, or if you are adventurous, create a "most recently added items" carousel... and then share your customization with the Evergreen community.
- **parts/topnav_logo.tt2**: holds the small Evergreen logo that appears on the top left of every page in the TPAC. You will also want to remove or change the target of the link that wraps the logo and leads to the [Evergreen site](#).
- **parts/login/form.tt2**: contains some assumptions about terminology and examples that you might prefer to change to be more consistent with your own site's existing practices. For example, you may not use PIN at your library because you want to encourage users to use a password that is more secure than a four-digit number.
- **parts/login/help.tt2**: contains links that point to <http://example.com>, images with text on them (which is not an acceptable practice for accessibility reasons), and promises of answers to frequently asked questions that might not exist at your site.
- **parts/login/password_hint.tt2**: contains a hint about your users' password on first login that is misleading if your library does not set the initial password for an account to the last four digits of the phone number associated with the account.

- **parts/myopac/main_refund_policy.tt2**: describes the policy for refunds for your library.
- **parts/myopac/prefs_hints.tt2**: suggests that users should have a valid email on file so they can receive courtesy and overdue notices. If your library does not send out email notices, you should edit this to avoid misleading your users.
- **myopac/update_password_msg.tt2**: defines the password format that needs to be used when setting a user password. If your Evergreen site has set Password format regex in the [Library Settings Editor](#), you should update the language to describe the format that should be used.
- **password_reset.tt2**: in the msg_map section, you might want to change the NOT_STRONG text that appears when the user tries to set a password that does not match the required format. Ideally, this message will tell the user how they should format the password.
- **parts/css/fonts.tt2**: defines the font sizes for the TPAC in terms of one base font size, and all other sizes derived from that in percentages. The default is 12 pixels, but [some design sites](#) strongly suggest a base font size of 16 pixels. Perhaps you want to try 1em as a base to respect your users' preferences. You only need to change one number in this file if you want to experiment with different options for your users.
- **parts/css/colors.tt2**: chances are your library's official colors do not match Evergreen's wall of dark green. This file defines the colors in use in the standard Evergreen template. In theory you should be able to change just a few colors and everything will work, but in practice you will need to experiment to avoid light-gray-on-white low-contrast combinations.

The following are templates that are less frequently overridden, but some libraries benefit from the added customization options.

- **parts/advanced/numeric.tt2**: defines the search options of the Advanced Search > Numeric search. If you wanted to add a bib call number search option, which is different from the item copy call number; you would add the following code to **numeric.tt2**.

```
<option value="identifier|bibcn">[% l('Bib Call Number') %]</option>
```

Chapter 35. Auto Suggest in Catalog Search

The auto suggest feature suggestions for completing search terms as the user enters his search query. Ten suggestions are the default, but the number of suggestions is configurable at the database level. Scroll through suggestions with your mouse, or use the arrow keys to scroll through the suggestions. Select a suggestion to view records that are linked to this suggestion. This feature is not turned on by default. You must turn it on in the Admin module.

Enabling this Feature

1. To enable this feature, click Admin → Server Administration → Global Flags.
2. Scroll down to item 10, OPAC.
3. Double click anywhere in the row to edit the fields.
4. Check the box adjacent to Enabled to turn on the feature.
5. The Value field is optional. If you checked Enabled in step 4, and you leave this field empty, then Evergreen will only suggest searches for which there are any corresponding MARC records.



If you checked Enabled in step 4, and you enter the string, `opac_visible`, into this field, then Evergreen will suggest searches for which there are matching MARC records with copies within your search scope. For example, it will suggest MARC records with copies at your branch.

6. Click Save.

#	Label	Enabled	Value
5	Cat: Use Internal ID for TCN Value	True	
6	Historical Circulation Retention Age	True	
7	Historical Circulations per Copy	True	
8	Cat: Maintain 001/003/035 according to the MARC21 specification	True	
9	Circ: Use original circulation library on opac renewal instead of user home library	False	
10	OPAC: Show auto-completing suggestions dialog under basic search box (put 'opac_visible' into the value field to limit suggestions to OPAC-visible items, or blank the field for a possible performance improvement)	True	opac_visible
11	Org Units Do Not Inherit Visibility	False	

Using this Feature

1. Enter search terms into the basic search field. Evergreen will automatically suggest search terms.
2. Select a suggestion to view records that are linked to this suggestion.

Search the Catalog [Advanced Search](#)

Search for Keyword

- Concertos **(Piano)**
Topic Subject (Subject)
- Concertos, **piano**
Uniform Title (Title)
- Dances **(Piano)**
Topic Subject (Subject)
- Piano music**
Uniform Title (Title)
- Piano music**
Topic Subject (Subject)
- Sonatas **(Piano)**
Topic Subject (Subject)
- Variations **(Piano)**

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Chapter 36. Authentication Proxy

To support integration of Evergreen with organizational authentication systems, and to reduce the proliferation of user names and passwords, Evergreen offers a service called `open-ils.auth_proxy`. If you enable the service, `open-ils.auth_proxy` supports different authentication mechanisms that implement the `authenticate` method. You can define a chain of these authentication mechanisms to be tried in order within the `<authenticators>` element of the `opensrf.xml` configuration file, with the option of falling back to the native mode that uses Evergreen's internal method of password authentication.

This service only provides authentication. There is no support for automatic provisioning of accounts. To authenticate using any authentication system, the user account must first be defined in the Evergreen database. The user will be authenticated based on the Evergreen username and must match the user's ID on the authentication system.

In order to activate Authentication Proxy, the Evergreen system administrator will need to complete the following steps:

1. Edit `opensrf.xml`.
 - a. Set the `open-ils.auth_proxy` app settings `enabled` tag to `true`
 - b. Add the authenticator to the list of authenticators or edit the existing example authenticator:

```
<authenticator>
  <name>ldap</name>
  <module>OpenILS::Application::AuthProxy::LDAP_Auth</module>
  <hostname>name.domain.com</hostname>
  <basedn>ou=people,dc=domain,dc=com</basedn>
  <authid>cn=username,ou=specials,dc=domain,dc=com</authid>
  <id_attr>uid</id_attr>
  <password>my_ldap_password_for_authid_user</password>
  <login_types>
    <type>staff</type>
    <type>opac</type>
  </login_types>
  <org_units>
    <unit>103</unit>
    <unit>104</unit>
  </org_units>
</authenticator>
```

- `name` : Used to identify each authenticator.
- `module` : References to the perl module used by Evergreen to process the request.
- `hostname` : Hostname of the authentication server.
- `basedn` : Location of the data on your authentication server used to authenticate users.
- `authid` : Administrator ID information used to connect to the Authentication server.

- `id_attr` : Field name in the authenticator matching the username in the Evergreen database.
- `password` : Administrator password used to connect to the authentication server. Password for the `authid`.
- `login_types` : Specifies which types of logins will use this authenticator. This might be useful if staff use a different LDAP directory than general users.
- `org_units` : Specifies which org units will use the authenticator. This is useful in a consortium environment where libraries will use separate authentication systems.

2. Restart Evergreen and Apache to activate configuration changes.



If using proxy authentication with library employees that will use the Admin > Change Operator: New feature in the client software, then add "temp" as a `login_types`.

Chapter 37. Kid's OPAC Configuration

Configuration

Apache

The KPAC is already included and ready to be used with new Evergreen installs. So you only need to change the apache config if you need to change template locations or if you want to use a different kpac.xml config file. The defaults for the KPAC are set in /etc/apache2/eg_vhosts.conf.

```
<Location /eg/kpac>
  PerlSetVar OILSWebContextLoader "OpenILS::WWW::EGKPacLoader"
  PerlSetVar KPacConfigFile "/openils/conf/kpac.xml.example"
</Location>
```

XML Configuration File

- The XML configuration file defines the layout of the kid's OPAC.
- It is read with each restart/reload of the Apache web server.
- The file lives by default at /openils/conf/kpac.xml.example
- There are two top-level elements: <pages> and <layout>.
- The layout defines the owning org unit and the start page, both by ID.
- At runtime, the layout is determined by the context org unit. If no configuration is defined for the context org unit, the layout for the closest ancestor is used.

```
<layout owner="1" page="1"/>
```

- The pages section is a container for <page> elements.
- Each page defines an ID, the number of columns to display for the page, the page name, and an icon.

```
<page id="1" columns="5" name="Home" img="/images/home.jpg">
```

- Each page is a container of cells
- Each cell defines
 - type (topic, search, link)
 - name
 - icon
 - content

- The content for type="topic" cells is the ID of the page this topic jumps to. The name and img for the referenced page is used as the display content.

```
<cell type="topic">12</cell>
```

- The content for type="search" cells is the search query. The name and img are used for the display content.

```
<cell name="Piano" img="category.png" type="search">su:piano</cell>
```

- The content for type="link" cells is the URL. The name and img are used for the display content.

```
<cell name="Clarinet" img="category.png"
  type="link">http://en.wikipedia.org/wiki/Clarinet</cell>
```

Skin Configuration

The following example enables you to configure the alternate skin (Monster Skin, kpac2) for the Kids Catalog.

You should be familiar with how the [Evergreen TPAC handles template folders](#) before you make these changes.

If you already have a custom template directory setup you can copy the Open-ILS/examples/web/templates/kpac files to that directory instead, and then skip any Apache config changes.

```
% cp -r Open-ILS/examples/web/css/skin/kpac2 /openils/var/web/css/skin/
% cp -r Open-ILS/examples/web/images/kpac/* /openils/var/web/images/kpac/ #does not clobber
% mkdir /openils/var/templates_kpac2
% cp -r Open-ILS/examples/web/templates/kpac /openils/var/templates_kpac2/
% cp -r /openils/var/web/css/skin/default/kpac/fonts /openils/var/web/css/skin/kpac2/kpac
```

Then set up 443/80 vhosts for serving the alternate skin in eg.conf, something along the lines of:

```
<VirtualHost *:80>
  ServerName xyz.dev198.esilibrary.com:80
  DocumentRoot /openils/var/web/
  DirectoryIndex index.html index.xhtml
  Include eg_vhost.conf
  <Location /eg/kpac>
    #Point to a different kpac.xml config file if needed
    #PerlSetVar KPacConfigFile "/openils/conf/kpac.xml.example"
    PerlAddVar OILSWebTemplatePath "/openils/var/templates_kpac2"
  </Location>
</VirtualHost>
```

Considerations for Community Adoption

The templates for the Kid's OPAC were developed long before the TPAC was integrated into Evergreen and it has many of the same limitations that were part of the TPAC.

- Fixed width elements (divs, images, etc.), which complicates the addition of new features and local customizations.
- Images with text, which prevents l10n/i18n.

- While the KPAC does not attempt to match the color scheme of any one institution, it's inconsistent with the standard Evergreen color palette. Creating an additional skin to act as the Evergreen default may be necessary.

Outstanding Development (Un-sponsored)

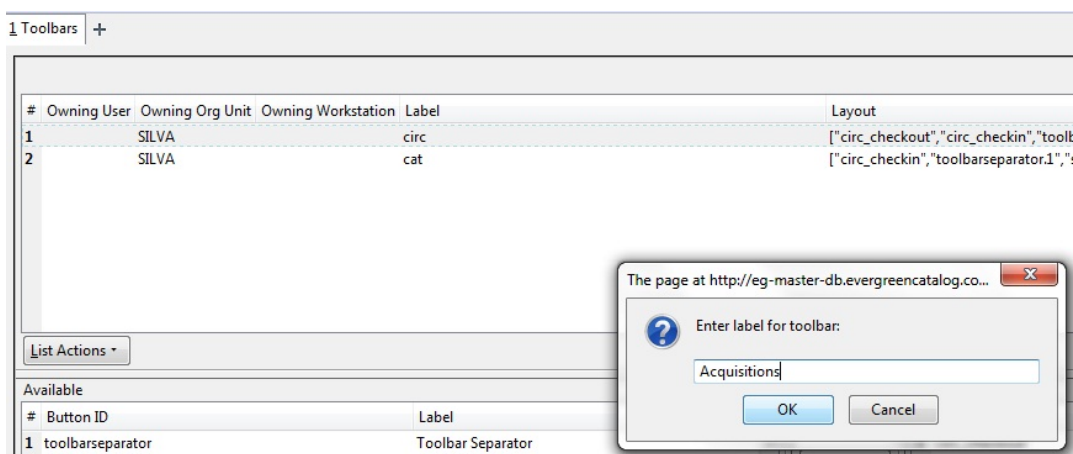
- Port the XML configuration file to a DB structure, complete with UI for managing the various components and upgrade path.

Chapter 38. Customizable Toolbar

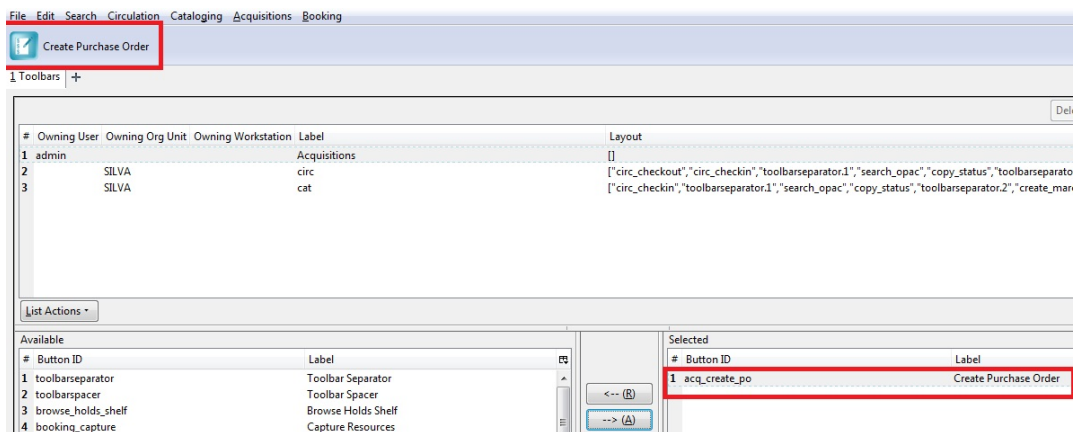
By default, two toolbars are available in the staff client: circulation and cataloging. This feature enables you to customize toolbars in the staff client. You can create toolbars for specific org unit(s), workstation(s), or login(s).

Configure Toolbar

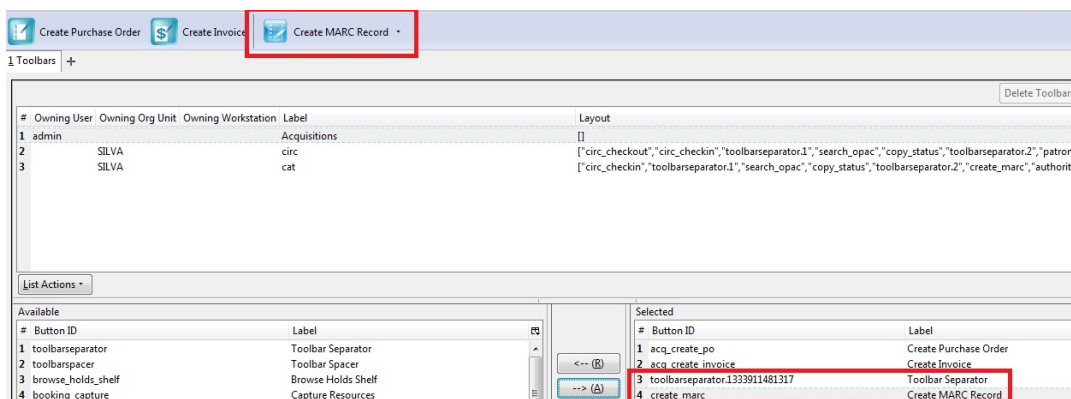
1. Click Admin → Workstation Administration → Toolbars → Configure Toolbars.
2. Click New Toolbar.
3. Enter label for toolbar.



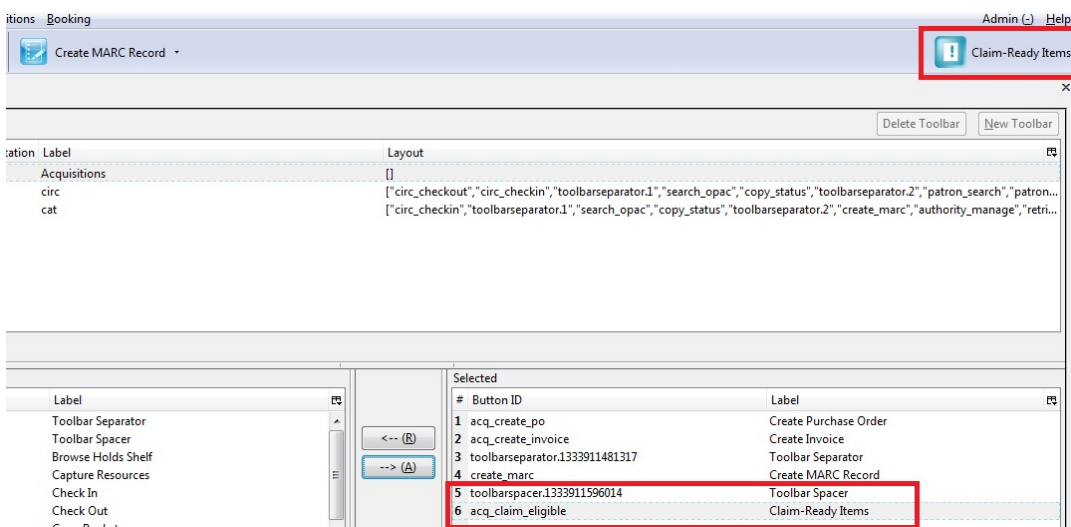
4. Click Ok.
5. Select one of the buttons in the Available panel. The Button ID describes that action that the button will take, and the Label will display in the toolbar.
6. Click the --> (A) button to add the selected function to the Selected panel on the bottom right side of the screen. To remove a button, click the <-- (R) button.



- Continue adding buttons if desired. The buttons will display in the order that you add them. If you want to reorder the buttons, click the Up or Down buttons.
- To separate buttons onto left and right sides of the screen on the same toolbar, select `toolbarspacer`, and click `--> (A)`.



- To add a dividing line between buttons that appear on the same side of the screen, select `toolbarseparator`, and click `--> (A)`.



10 At the bottom of the screen, choose the owner of this toolbar. If you click Owning Org Unit, then the owning org unit that you specify will display this toolbar. Select the owning org unit from the drop down menu. The rule of parental inheritance applies, so all child units will inherit the toolbars of their parental units. If you click Owning Workstation, then the workstation to which you are logged in when you created the toolbar will display this toolbar. If you select Owning User, then your login has access to that toolbar.

11 When you are finished creating the toolbar, click Save Toolbar. Any toolbar to which you have access displays under Admin → Workstation Administration → Toolbars → Current.

Permissions

ADMIN_TOOLBAR - Allow a user to create, edit, and delete custom toolbars

Chapter 39. Patron Address City/State/County Pre-Populate by ZIP Code

This feature saves staff time and increases accuracy when entering patron address information by automatically filling in the City, State and County information based on the ZIP code entered by the staff member.

Released: Evergreen 0.1, available in all versions.

Please be aware of the following when using this feature.

- ZIP codes do not always match 1 to 1 with City, State and County. ZIP codes were designed for postal delivery and represent postal delivery zones that may cover more than one city, state or county.
 - It is currently only possible to have one match per ZIP code, but you can add an alert to those entries to prompt staff to double check the entered data.
- Only the first 5 digits of the ZIP are used. ZIP+4 is not currently supported.
- The zips.txt data is loaded once at service startup and stored in memory, so changes to the zips.txt data file require that Evergreen be restarted. Specifically, you need to restart the "openils.search" OpenSRF service.

Scoping and Permissions

There are no staff client permissions associated with this feature since there is no staff client interface.

This feature affects all users of the system; there is no way to have separate settings per Org Unit.

Setup Steps

Step 1 - Setup Data File

The default location and name of the data file is /openils/var/data/zips.txt on your Evergreen server. You can choose a different location if needed.

The file format of your zips.txt will look like this (delimited by the .):

```
ID|StateAbb|City|ZIP|IsDefault|StateID|County|AreaCode|AlertMsg
```

The only fields that are used are StateAbb, City, ZIP, IsDefault, County and AlertMsg.

Most fields can be left blank if the information is not available and that data will not be entered.

Data Field Descriptions

1. ID - ID field to uniquely identify this row. Not required, can be left blank.
2. StateAbb - State abbreviation like "MN" or "ND".
3. City - Name of city.
4. ZIP - ZIP code, only first 5 digits used.
5. IsDefault - Must be set to 1 for the row to be used. Easy way to disable/enable a row.
6. StateID - Unknown and unused.
7. County - County name.
8. AreaCode - Phone number area code, unused.
9. AlertMesg - Message to display to staff to alert them of any special circumstances.



The [Address Alerts](#) feature can also be used to alert staff about certain addresses.

Here is an example of what the data file should look like.

Example zips.txt.

```
|MN|Moorhead|56561|1||Clay| |
|MN|Moorhead|56562|1||Clay| |
|MN|Moorhead|56563|1||Clay| |
|MN|Sabin|56580|1||Clay| |
|MN|Ulen|56585|1||Clay| |
|MN|Lake Itasca|56460|1||Clearwater County| |
|MN|Bagley|56621|1||Clearwater| |
|MN|Clearbrook|56634|1||Clearwater| |
|MN|Gonvick|56644|1||Clearwater| |
```

Step 2 - Enable Feature

The next step is to tell the system to use the zips.txt file that you created. This is done by editing / opensils/conf/opensrf.xml. Look about halfway into the file and you may very well see a commented section in the file that looks similar to this:

```
    <!-- zip code database file -->
    <!--<zips_file>/opensils/var/data/zips.txt</zips_file>-->
  </app_settings>
</open-ils.search>
```

Uncomment the area by . . . Change the file path if you placed your file in a different location. The file should look like this after you are done.

```
    <!-- zip code database file -->
    <zips_file>/opensils/var/data/zips.txt</zips_file>
```

```
</app_settings>
</open-ils.search>
```

Save and Restart. Save your changes to the opensrf.xml file, restart Evergreen and restart Apache.



The specific opensrf services you need to restart are "opensrf.setting" and "open-ils.search".

Step 3 - Test

Open up the staff client and try to register a new patron. When you get to the address section, enter a ZIP code that you know is in your zips.txt file. The data from the file that matches your ZIP will auto fill the city, state and county fields.

ZIP Code Data

There are several methods you can use to populate your zips.txt with data.

Manual Entry

If you only have a few communities that you serve, entering data manually may be the simplest approach.

Geonames.org Data

Geonames.org provides free ZIP code to city, state and county information licensed under the Creative Commons Attribution 3.0 License, which means you need to put a link to them on your website. Their data includes primary city, state and county information only. It doesn't include info about which other cities are included in a ZIP code. Visit <http://www.geonames.org> for more info.

The following code example shows you how to download and reformat the data into the zips.txt format. You have the option to filter the data to only include certain states also.

```
## How to get a generic Evergreen zips.txt for free
wget http://download.geonames.org/export/zip/US.zip
unzip US.zip
cut -f2,3,5,6 US.txt \
| perl -ne 'chomp; @f=split(/\t/); print "|" . join("|", (@f[2,1,0], "1", "", $f[3], "")), "\n";' \
> zips.txt
```

```
##Optionally filter the data to only include certain states
egrep "^\(ND|MN|WI|SD\)\" zips.txt > zips-mn.txt
```

Commercial Data

There are many vendors that sell databases that include ZIP code to city, state and county information. A web search will easily find them. Many of the commercial vendors will include more

information on which ZIP codes cover multiple cities, counties and states, which you could use to populate the alert field.

Existing Patron Database

Another possibility is to use your current patron database to build your zips.txt. Pull out the current ZIP, city, state, county unique rows and use them to form your zips.txt.

Small Sites. For sites that serve a small geographic area (less than 30 ZIP codes), an sql query like the following will create a zips.txt for you. It outputs the number of matches as the first field and sorts by ZIP code and number of matches. You would need to go through the resulting file and deal with duplicates manually.

```
psql egdb26 -A -t -F $'|' \
-c "SELECT count(substring(post_code from 1 for 5)) as zipcount, state, \
city, substring(post_code from 1 for 5) as pc, \
'1', '', county, '', '' FROM actor.usr_address \
group by pc, city, state, county \
order by pc, zipcount DESC" > zips.txt
```

Larger Sites. For larger sites Ben Ostrowsky at ESI created a pair of scripts that handles deduping the results and adding in county information. Instructions for use are included in the files.

- http://git.esilibrary.com/?p=migration-tools.git;a=blob;f=elect_ZIPs
- http://git.esilibrary.com/?p=migration-tools.git;a=blob;f=enrich_ZIPs

Development

If you need to make changes to how this feature works, such as to add support for other postal code formats, here is a list of the files that you need to look at.

1. Zips.pm - contains code for loading the zips.txt file into memory and replying to search queries. Open-ILS / src / perlmods / lib / OpenILS / Application / Search / Zips.pm
2. register.js - This is where patron registration logic is located. The code that queries the ZIP search service and fills the address is located here. Open-ILS / web / js / ui / default / actor / user / register.js

Chapter 40. Phonest.pm Module

PhoneList.pm is a mod_perl module for Apache that works with Evergreen to generate callings lists for patron holds or overdues. It outputs a csv file that can be fed into an auto-dialer script to call patrons with little or no staff intervention. It is accessed and configured via a special URL and passing any parameters as a **Query String** on the URL. The parameters are listed in the table below.

Table 40.1. Parameters for the phonest program:

user	Your Evergreen login. Typically your library's circ account. If you leave this off, you will be prompted to login.
passwd	The password for your Evergreen login. If you leave this off you will be prompted to login.
ws_ou	The ID of the system or branch you want to generate the list for (optional). If your account does not have the appropriate permissions for the location whose ID number you have entered, you will get an error.
skipemail	If present, skip patrons with email notification (optional).
addcount	Add a count of items on hold (optional). Only makes sense for holds.
overdue	Makes a list of patrons with overdues instead of holds. If an additional, numeric parameter is supplied, it will be used as the number of days overdue. If no such extra parameter is supplied, then the default of 14 days is used.

The URL is

`https://your.evergreen-server.tld/phonelist`

A couple of examples follow:

**`https://your.evergreen-server.tld/phonelist?
user=circuser&passwd=password&skipemail`**

The above example would sign in as user `circuser` with password of **password** and get a list of patrons with holds to call who do not have email notification turned on. It would run at whatever branch is normally associated with `circuser`.

`https://your.evergreen-server.tld/phonelist?skipemail`

The above example would do more or less the same, but you would be prompted by your browser for the user name and password.

If your browser or download script support it, you may also use conventional HTTP authentication parameters.

```
https://user:password@your.evergreen-server.tld/phonelist?overdue&ws_ou=2
```

The above logs in as **user** with **password** and runs overdue for location ID 2.

The following sections provide more information on getting what you want in your output.

Adding Parameters

If you are not familiar with HTTP/URL query strings, the format is quite simple.

You add parameters to the end of the URL, the first parameter is separated from the URL page with a question mark (?) character. If the parameter is to be given an extra value, then that value follows the parameter name after an equals sign (=). Subsequent parameters are separated from the previous parameter by an ampersand (&).

Here is an example with 1 parameter that has no value:

```
https://your.evergreen-server.tld/phonelist?skipemail
```

An example of 1 argument with a value:

```
https://your.evergreen-server.tld/phonelist?overdue=21
```

An example of 2 arguments, 1 with a value and 1 without:

```
https://your.evergreen-server.tld/phonelist?overdue=21&skipemail
```

Any misspelled or parameters not listed in the table above will be ignored by the program.

Output

On a successful run, the program will return a CSV file named phone.csv. Depending on your browser or settings you will alternately be prompted to open or save the file. Your browser may also automatically save the file in your Downloads or other designated folder. You should be able to open this CSV file in Excel, LibreOffice Base, any other spread sheet program, or a text editor.

If you have made a mistake and have mistyped your user name or password, or if you supply a ws_ou parameter with an ID where your user name does not have permission to look up holds or overdue information, then you will get an error returned in your browser.

Should your browser appear to do absolutely nothing at all. This is normal. When there is no information for you to download, the server will return a 200 NO CONTENT message to your browser. Most browsers respond to this message by doing nothing at all. It is possible for there to be no information for you to retrieve if you added the **skipemail** option and all of your notices for that day were sent via email, or if you ran this in the morning and then again in the afternoon and there was no new information to gather.

The program does indicate that it has already looked at a particular hold or overdue and will skip it on later runs. This prevents duplicates to the same patron in the same run. It will, however, create a **duplicate** for the same patron if a different copy is put on hold for that patron in between two runs.

The specific content of the CSV file will vary if you are looking at holds or overdues. The specific contents are described in the appropriate sections below.

Holds

The **phonelist** program will return a list of patrons with copies on hold by default, so long as you do not use the **overdue** parameter. You may optionally get a number of items that patron currently has on hold by adding the **addcount** parameter.

As always, you can add the skipemail parameter to skip patrons with email notifications of their overdues, see [Skipping patrons with email notification of holds](#) as described below.

Table 40.2. Columns in the holds CSV file:

Name	Patron's name first and last.
Phone	Patron's phone number.
Barcode	Patron's barcode.
Count	Number of copies on hold, if addcount parameter is used, otherwise this column is not present in the file.

Overdues

If you add the **overdue** parameter, you can get a list of patrons with overdue copies instead of a list of patrons with copies on the hold shelf. By default, this will give you a list of patrons with copies that are 14 days overdue. If you'd like to specify a different number of days you can add the number after the parameter with an equals sign:

`https://your.evergreen-server.tld/phonelist?overdue=21&ws_ou=2`

The above will retrieve a list of patrons who have items that are 21 days overdue at the location with ID of 2.

The number of days is an exact lookup. This means that the program will look only at patrons who have items exactly 14 days or exactly the number of days specified overdue. It does not pull up any that are less than or greater than the number of days specified.

As always, you can add the skipemail parameter to skip patrons with email notifications of their overdues, see [Skipping patrons with email notification of holds](#) as described below.

Table 40.3. Columns in the overdues CSV file:

Name	Patron's name first and last.
------	-------------------------------

Phone	Patron's phone number.
Barcode	Patron's barcode.
Titles	A colon-separated list of titles that the patron has overdue.

Skipping patrons with email notification of holds

Skipping patrons who have email notification for their holds or overdues is very simple. You just need to add the **skipemail** parameter on the URL query string. Doing so will produce the list without the patrons who have email notification for overdues, or for all of their holds. Please note that if a patron has multiple holds available, and even one of these holds requests a phone-only notification, then that patron will still show on the list. For this option to exclude a patron from the holds list, the patron must request email notification on all of their current holds. In practice, we find that this is usually the case.

Using the ws_ou parameter

Generally, you will not need to use the `ws_ou` parameter when using the `phonelist` program. The `phonelist` will look up the branch where your login account works and use that location when generating the list. However, if you are part of a multi-branch systems in a consortium, then the `ws_ou` parameter will be of interest to you. You can use it to specify which branch, or the whole system, you wish to search when running the program.

Automating the download

If you'd like to automate the download of these files, you should be able to do so using any HTTP programming toolkit. Your client must accept cookies and follow any redirects in order to function.

Chapter 41. SIP Server

SIP, standing for **Standard Interchange Protocol**, was developed by the **3M corporation** to be a common protocol for data transfer between ILS' (referred to in **SIP** as an ACS, or Automated Circulation System) and a third party device. Originally, the protocol was developed for use with 3M SelfCheck (often abbreviated SC, not to be confused with Staff Client) systems, but has since expanded to other companies and devices. It is now common to find **SIP** in use in several other vendors' SelfCheck systems, as well as other non-SelfCheck devices. Some examples include:

- Patron Authentication (computer access, subscription databases)
- Automated Material Handling (AMH)
 - The automated sorting of items, often to bins or book carts, based on shelving location or other programmable criteria

Installing the SIP Server

This is a rough intro to installing the **SIP** server for Evergreen.

Getting the code

Current **SIP** server code lives at in the Evergreen git repository:

```
cd /opt
git clone git://git.evergreen-ils.org/SIPServer.git SIPServer
```

Configuring the Server

1. Type the following commands from the command prompt:

```
$ sudo su opensrf
$ cd /openils/conf
$ cp oils_sip.xml.example oils_sip.xml
```

2. Edit `oils_sip.xml`. Change the commented out `<server-params>` section to this:

```
<server-params
  min_spare_servers='1'
  max_spare_servers='2'
  min_servers='3'
  max_servers='25'
/>
```

3. `max_servers` will directly correspond to the number of allowed **SIP** clients. Set the number accordingly, but bear in mind that too many connections can exhaust memory. On a 4G RAM/4

CPU server (that is also running evergreen), it is not recommended to exceed 100 **SIP** client connections.

Adding SIP Users

1. Type the following commands from the command prompt:

```
$ sudo su opensrf
$ cd /openils/conf
```

2. In the **<accounts>** section, add **SIP** client login information. Make sure that all **<logins>** use the same institution attribute, and make sure the institution is listed in **<institutions>**. All attributes in the **<login>** section will be used by the **SIP** client.

3. In Evergreen, create a new profile group called **SIP**. This group should be a sub-group of **Users** (not **Staff** or **Patrons**). Set Editing Permission as `group_application.user.sip_client` and give the group the following permissions:

```
COPY_CHECKIN
COPY_CHECKOUT
CREATE_PAYMENT
RENEW_CIRC
VIEW_CIRCULATIONS
VIEW_COPY_CHECKOUT_HISTORY
VIEW_PERMIT_CHECKOUT
VIEW_USER
VIEW_USER_FINES_SUMMARY
VIEW_USER_TRANSACTIONS
```

OR use SQL like:

```
INSERT INTO permission.grp_tree (name,parent,description,application_perm)
VALUES ('SIP', 1, 'SIP2 Client Systems', 'group_application.user.sip_client');
```

```
INSERT INTO
  permission.grp_perm_map (grp, perm, depth, grantable)
SELECT
  g.id, p.id, 0, FALSE
FROM
  permission.grp_tree g,
  permission.perm_list p
WHERE
  g.name = 'SIP' AND
  p.code IN (
    'COPY_CHECKIN',
    'COPY_CHECKOUT',
    'RENEW_CIRC',
    'VIEW_CIRCULATIONS',
    'VIEW_COPY_CHECKOUT_HISTORY',
    'VIEW_PERMIT_CHECKOUT',
    'VIEW_USER',
    'VIEW_USER_FINES_SUMMARY',
    'VIEW_USER_TRANSACTIONS'
  );
```

Verify:

```
SELECT *
FROM permission.grp_perm_map pgpm
  INNER JOIN permission.perm_list ppl ON pgpm.perm = ppl.id
```

```
INNER JOIN permission.grp_tree pgt ON pgt.id = pgpm.grp
WHERE pgt.name = 'SIP';
```

4. For each account created in the **<login>** section of `oils_sip.xml`, create a user (via the staff client user editor) that has the same username and password and put that user into the **SIP** group.



The expiration date will affect the **SIP** users' connection so you might want to make a note of this somewhere.

Running the server

To start the **SIP** server type the following commands from the command prompt:

```
$ sudo su opensrf
$ oils_ctl.sh -a [start|stop|restart]_sip
```

Logging-SIP

Syslog

It is useful to log **SIP** requests to a separate file especially during initial setup by modifying your syslog config file.

1. Edit `syslog.conf`.

```
$ sudo vi /etc/syslog.conf # maybe /etc/rsyslog.conf
```

2. Add this:

```
local6.*                -/var/log/SIP_evergreen.log
```

3. Syslog expects the logfile to exist so create the file.

```
$ sudo touch /var/log/SIP_evergreen.log
```

4. Restart `sysklogd`.

```
$ sudo /etc/init.d/sysklogd restart
```

Syslog-NG

1. Edit logging config.

```
sudo vi /etc/syslog-ng/syslog-ng.conf
```

2. Add:

```
# +SIP2+ for Evergreen
filter    f_eg_sip { level(warn, err, crit) and facility(local6); };
destination eg_sip { file("var/log/SIP_evergreen.log"); };
log { source(s_all); filter(f_eg_sip); destination(eg_sip); };
```

3. Syslog-ng expects the logfile to exist so create the file.

```
$ sudo touch /var/log/SIP_evergreen.log
```

4. Restart syslog-ng

```
$ sudo /etc/init.d/syslog-ng restart
```

Testing Your SIP Connection

- In the root directory of the SIPServer code:

```
$ cd SIPServer/t
```

- Edit SIPtest.pm, change the \$instid, \$server, \$username, and \$password variables. This will be enough to test connectivity. To run all tests, you'll need to change all the variables in the Configuration section.

```
$ PERL5LIB=../ perl 00sc_status.t
```

This should produce something like:

```
1..4
ok 1 - Invalid username
ok 2 - Invalid username
ok 3 - login
ok 4 - SC status
```

- Don't be dismayed at Invalid Username. That's just one of the many tests that are run.

More Testing

Once you have opened up either the **SIP** OR **SIP2** ports to be accessible from outside you can do some testing via **telnet**. In the following tests:

- Replace **\$server** with your server hostname (or **localhost** if you want to skip testing external access for now);
- Replace **\$username**, **\$password**, and **\$instid** with the corresponding values in the **<accounts>** section of your SIP configuration file;
- Replace the **\$user_barcode** and **\$user_password** variables with the values for a valid user.
- Replace the **\$item_barcode** variable with the values for a valid item.

1. Start by testing your ability to log into the SIP server:



We are using 6001 here which is associated with **SIP2** as per our configuration.

```
$ telnet $server 6001
Connected to $server.
Escape character is '^]'.
9300CN$username|C0$password|CP$instid
```

If successful, the SIP server returns a **941** result. A result of **940**, however, indicates an unsuccessful login attempt. Check the **<accounts>** section of your SIP configuration and try again.

2. Once you have logged in successfully, replace the variables in the following line and paste it into the telnet session:

```
2300120080623 172148A0$instid|AA$user_barcode|AC$password|AD$user_password
```

If successful, the SIP server returns the patron information for \$user_barcode, similar to the following:

```
24 Y 00120100113 170738AEFirstName MiddleName LastName|AA$user_barcode|BLY|CQY
|BHUSD|BV0.00|AFOK|A0$instid|
```

The response declares it is a valid patron BLY with a valid password CQY and shows the user's **\$name**.

3. To test the SIP server's item information response, issue the following request:

```
1700120080623 172148A0$instid|AB$item_barcode|AC$password
```

If successful, the SIP server returns the item information for \$item_barcode, similar to the following:

```
1803020120160923 190132AB30007003601852|AJRégion de Kamouraska|CK001|AQOSUL|APOSUL|BHCAD
|BV0.00|BGOSUL|CSCA2 PQ NR46 73R
```

The response declares it is a valid item, with the title, owning library, permanent and current locations, and call number.

SIP Communication

SIP generally communicates over a **TCP** connection (either raw sockets or over **telnet**), but can also communicate via serial connections and other methods. In Evergreen, the most common deployment is a **RAW** socket connection on port 6001.

SIP communication consists of strings of messages, each message request and response begin with a 2-digit "command" - Requests usually being an odd number and responses usually increased by 1 to be an even number. The combination numbers for the request command and response is

often referred to as a Message Pair (for example, a 23 command is a request for patron status, a 24 response is a patron status, and the message pair 23/24 is patron status message pair). The table in the next section shows the message pairs and a description of them.

For clarification, the “Request” is from the device (selfcheck or otherwise) to the ILS/ACS. The response is... the response to the request ;).

Within each request and response, a number of fields (either a fixed width or separated with a | [pipe symbol] and preceded with a 2-character field identifier) are used. The fields vary between message pairs.

Pair	Name	Supported?	Details
01	Block Patron	Yes	01/Block_Patron - ACS responds with 24 Patron Status Response
09-10	Checkin	Yes (with extensions)	09/10_Checkin
11-12	Checkout	Yes (no renewals)	11/12_Checkout
15-16	Hold	Partially supported	15/16_Hold
17-18	Item Information	Yes (no extensions)	17/18_Item_Information
19-20	Item Status Update	No	19/20_Item_Status_Update - Returns Patron Enable response, but doesn't make any changes in EG
23-24	Patron Status	Yes	23/24_Patron_Status - 63/64 “Patron Information” preferred
25-26	Patron Enable	No	25/26_Patron_Enable - Used during system testing and validation
29-30	Renew	Yes	29/30_Renew
35-36	End Session	Yes	35/36_End_Session
37-38	Fee Paid	Yes	37/38_Fee_Paid
63-64	Patron Information	Yes (no extensions)	63/64_Patron_Information
65-66	Renew All	Yes	65/66_Renew_All
93-94	Login	Yes	93/94_Login - Must be first command to Evergreen ACS (via socket) or SIP will terminate
97-96	Resend last message	Yes	97/96_Resend
99-98	SC-ACS Status	Yes	99/98_SC_and_ACS_Status

01 Block Patron

A selfcheck will issue a Block Patron command if a patron leaves their card in a selfcheck machine or if the selfcheck detects tampering (such as attempts to disable multiple items during a single item checkout, multiple failed pin entries, etc).

In Evergreen, this command does the following:

- User alert message: CARD BLOCKED BY SELF-CHECK MACHINE (this is independent of the AL Blocked Card Message field).
- Card is marked inactive.

The request looks like:

```
01<card retained><date>[fields A0, AL, AA, AC]
```

Card Retained: A single character field of Y or N - tells the ACS whether the SC has retained the card (ex: left in the machine) or not.

Date: An 18 character field for the date/time when the block occurred.

Format: YYYYMMDDZZZZHHMMSS (ZZZZ being zone - 4 blanks when local time, "Z" (3 blanks and a Z) represents UTC(GMT/Zulu)

Fields: See [Fields](#) for more details.

The response is a 24 "Patron Status Response" with the following:

- Charge privileges denied
- Renewal privileges denied
- Recall privileges denied (hard-coded in every 24 or 64 response)
- hold privileges denied
- Screen Message 1 (AF): blocked
- Patron

09/10 Checkin

~The request looks like:

```
09<No block (Offline)><xact date><return date>[Fields AP,A0,AB,AC,CH,BI]
```

No Block (Offline): A single character field of Y or N - Offline transactions are not currently supported so send N.

xact date: an 18 character field for the date/time when the checkin occurred. Format: YYYYMMDDZZZZHHMMSS (ZZZZ being zone - 4 blanks when local time, "Z" (3 blanks and a Z) represents UTC(GMT/Zulu)

Fields: See [Fields](#) for more details.

The response is a 10 “Checkin Response” with the following:

```
10<resensitize><magnetic media><alert><xact date>[Fields AO,AB,AQ,AJ,CL,AA,CK,CH,CR,CS,CT,CV,CY,DA,AF,AG]
```

Example (with a remote hold):

```
09N20100507    16593720100507    165937APCheckin Bin 5|A0BR1|AB1565921879|ACsip_01|
101YNY20100623    165731A0BR1|AB1565921879|A0BR1|AJPerl 5 desktop reference|CK001|CSQA76.73.P33V76 1996
|CTBR3|CY373827|DANicholas Richard Woodard|CV02|
```

Here you can see a hold alert for patron CY 373827, named DA Nicholas Richard Woodard, to be picked up at CT “BR3”. Since the transaction is happening at AO “BR1”, the alert type CV is 02 for hold at remote library. The possible values for CV are:

- 00: unknown
- 01: local hold
- 02: remote hold
- 03: ILL transfer (not used by EG)
- 04: transfer
- 99: other



The logic for Evergreen to determine whether the content is `magnetic_media` comes from either legacy circ scripts or `search_config_circ_modifier`. The default is non-magnetic. The same is true for `media_type` (default 001). Evergreen does not populate the `collection_code` because it does not really have any, but it will provide the `call_number` where available.

Unlike the `item_id` (barcode), the `title_id` is actually a title string, unless the configuration forces the return of the bib ID.

Don't be confused by the different branches that can show up in the same response line.

- AO is where the transaction took place,
- AQ is the “permanent location”, and
- CT is the destination location (i.e., pickup lib for a hold or target lib for a transfer).

11/12 Checkout

15/16 Hold

Evergreen supports the Hold message for the purpose of canceling holds. It does not currently support creating hold requests via SIP2.

17/18 Item Information

The request looks like:

```
17<xact_date>[fields: A0,AB,AC]
```

The request is very terse. AC is optional.

The following response structure is for **SIP2**. (Version 1 of the protocol had only 6 total fields.)

```
18<circulation_status><security_marker><fee_type><xact_date>
[fields: CF,AH,CJ,CM,AB,AJ,BG,BH,BV,CK,AQ,AP,CH,AF,AG,+CT,+CS]
```

Example:

```
1720060110    215612A0BR1|ABno_such_barcode|
1801010120100609    162510ABno_such_barcode|AJ|
1720060110    215612A0BR1|AB1565921879|
1810020120100623    171415AB1565921879|AJPerl 5 desktop reference|CK001|AQBR1|APBR1|BGBR1
|CTBR3|CSQA76.73.P33V76 1996|
```

The first case is with a bogus barcode. The latter shows an item with a circulation_status of 10 for in transit between libraries. The known values of **circulation_status** are enumerated in the spec.

EXTENSIONS: The CT field for destination location and CS call number are used by Automated Material Handling systems.

19/20 Item Status Update

23/24 Patron Status

Example:

```
2300120060101    084235A0UWOLS|AAbad_barcode|ACsip_01|ADbad_password|
24YYYYY          00120100507    013934AE|AAbad_barcode|BLN|A0UWOLS|
2300120060101    084235A0CONS|AA999999|ACsip_01|ADbad_password|
24 Y             00120100507    022318AEDoug Fiander|AA999999|BLY|CQN|BHUSD|BV0.00|AFOK|A0CONS|
```



```
2300120060101 084235A0CONS|AA999999|ACsip_01|ADuserpassword|LY|CQN|BHUSD|BV0.00|AF0K|A0CONS|
24 Y 00120100507 022803AEDoug Fiander|AA999999|BLY|CQY|BHUSD|BV0.00|AF0K|A0CONS|
```

1. The BL field (**SIP2**, optional) is valid patron, so the N value means bad_barcode doesn't match a patron, the Y value means 999999 does.
2. The CQ field (**SIP2**, optional) is valid password, so the N value means bad_password doesn't match 999999's password, the Y means userpassword does.

So if you were building the most basic **SIP2** authentication client, you would check for |CQY| in the response to know the user's barcode and password are correct (|CQY| implies |BLY|, since you cannot check the password unless the barcode exists). However, in practice, depending on the application, there are other factors to consider in authentication, like whether the user is blocked from checkout, owes excessive fines, reported their card lost, etc. These limitations are reflected in the 14-character patron status string immediately following the 24 code. See the field definitions in your copy of the spec.

25/26 Patron Enable

Not yet supported.

29/30 Renew

Evergreen supports the Renew message.

35/36 End Session

```
3520100505 115901A0BR1|AA999999|
36Y20100507 161213A0CONS|AA999999|AFThank you!|
```

The Y/N code immediately after the 36 indicates success/failure. Failure is not particularly meaningful or important in this context, and for evergreen it is hardcoded Y.

37/38 Fee Paid

Evergreen supports the Fee Paid message.

63/64 Patron Information

Attempting to retrieve patron info with a bad barcode:

- status code - 1 character
- max print width - 3 characters - the integer number of characters the client can print
- protocol version - 4 characters - x.xx

```
98<on-line status><checkin ok><checkout ok><ACS renewal policy>
<status update ok><offline ok><timeout period>

<retries allowed><date/time sync><protocol version><institution id>
<library name><supported messages><terminal
location><screen message><print line>
```

Example:

```
9910302.00
98YYYYNN60000320100510 1717202.00AOCONS|BXYYYYYYYYYNNNNYN|
```

The Supported Messages field **BX** appears only in **SIP2**, and specifies whether 16 different **SIP** commands are supported by the **ACS** or not.

Fields

All fixed-length fields in a communication will appear before the first variable-length field. This allows for simple parsing. Variable-length fields are by definition delimited, though there will not necessarily be an initial delimiter between the last fixed-length field and the first variable-length one. It would be unnecessary, since you should know the exact position where that field begins already.

Chapter 42. Apache Rewrite Tricks

It is possible to use Apache's Rewrite Module features to perform a number of useful tricks that can make people's lives much easier.

Short URLs

Making short URLs for common destinations can simplify making printed media as well as shortening or simplifying what people need to type. These are also easy to add and require minimal maintenance, and generally can be implemented with a single line addition to your `eg_vhost.conf` file.

```
# My Account - http://host.ext/myaccount -> My Account Page
RewriteRule ^/myaccount https://%{HTTP_HOST}/eg/opac/myopac/main [R]

# ISBN Search - http://host.ext/search/isbn/<ISBN NUMBER> -> Search Page
RewriteRule ^/search/isbn/(.*) /eg/opac/results?_special=1&qtype=identifier|isbn&query=$1 [R]
```

Domain Based Content with RewriteMaps

One creative use of Rewrite features is domain-based configuration in a single `eg_vhost.conf` file. Regardless of how many VirtualHost blocks use the configuration you don't need to duplicate things for minor changes, and can in fact use wildcard VirtualHost blocks to serve multiple subdomains.

For the wildcard blocks you will want to use a `ServerAlias` directive, and for SSL VirtualHost blocks ensure you have a wildcard SSL certificate.

```
ServerAlias *.example.com
```

For actually changing things based on the domain, or subdomain, you can use `RewriteMaps`. Each `RewriteMap` is generally a lookup table of some kind. In the following examples we will generally use text files, though database lookups and external programs are also possible.

Note that in the examples below we generally store things in Environment Variables. From within Template Toolkit templates you can access environment variables with the `ENV` object.

Template Toolkit ENV example, link library name/url if set.

```
[% IF ENV.eglibname && ENV.egliburl %]<a href="[% ENV.egliburl %]">[% ENV.eglibname %]</a>[% END %]
```

The first lookup to do is a domain to identifier, allowing us to re-use identifiers for multiple domains. In addition we can also supply a default identifier, for when the domain isn't present in the lookup table.

Apache Config.

```
# This internal map allows us to lowercase our hostname, removing case issues in our lookup table
# If you prefer uppercase you can use "uppercase int:toupper" instead.
RewriteMap lowercase int:tolower
# This provides a hostname lookup
RewriteMap eglibid txt:/openils/conf/libid.txt
# This stores the identifier in a variable (eglibid) for later use
# In this case CONS is the default value for when the lookup table has no entry
```

```
RewriteRule . - [E=eglibid:${eglibid:${lowercase:%{HTTP_HOST}}|CONS}]
```

Contents of libid.txt File.

```
# Comments can be included
# Multiple TLDs for Branch 1
branch1.example.com BRANCH1
branch1.example.net BRANCH1
# Branches 2 and 3 don't have alternate TLDs
branch2.example.com BRANCH2
branch3.example.com BRANCH3
```

Once we have identifiers we can look up other information, when appropriate. For example, say we want to look up library names and URLs:

Apache Config.

```
# Library Name Lookup - Note we provide no default in this case.
RewriteMap eglibname txt:/openils/conf/libname.txt
RewriteRule . - [E=eglibname:${eglibname:%{ENV:eglibid}}]
# Library URL Lookup - Also with no default.
RewriteMap egliburl txt:/openils/conf/liburl.txt
RewriteRule . - [E=egliburl:${egliburl:%{ENV:eglibid}}]
```

Contents of libname.txt File.

```
# Note that we cannot have spaces in the "value", so instead &#32; is used. &nbsp; is also an option.
BRANCH1 Branch&#32;One
BRANCH2 Branch&#32;Two
BRANCH3 Branch&#32;Three
CONS Example&#32;Consortium&#32;Name
```

Contents of liburl.txt File.

```
BRANCH1 http://branch1.example.org
BRANCH2 http://branch2.example.org
BRANCH3 http://branch3.example.org
CONS http://example.org
```

Or, perhaps set the "physical location" variable for default search/display library:

Apache Config.

```
# Lookup "physical location" IDs
RewriteMap eglibphysloc txt:/openils/conf/libphysloc.txt
# Note: physical_loc is a variable used in the TTOPAC and should not be re-named
RewriteRule . - [E=physical_loc:${eglibphysloc:%{ENV:eglibid}}]
```

Contents of libphysloc.txt File.

```
BRANCH1 4
BRANCH2 5
BRANCH3 6
CONS 1
```

Going further, you could also replace files to be downloaded, such as images or stylesheets, on the fly:

Apache Config.

```
# Check if a file exists based on eglibid and the requested file name
# Say, BRANCH1/opac/images/main_logo.png
RewriteCond %{DOCUMENT_ROOT}/%{ENV:eglibid}%{REQUEST_URI} -f
```

```
# Serve up the eglibid version of the file instead
RewriteRule (.*) /%{ENG:eglibid}$1
```

Note that template files themselves cannot be replaced in that manner.

Chapter 43. Apache Access Handler Perl Module

The `OpenILS::WWW::AccessHandler Perl` module is intended for limiting patron access to configured locations in Apache. These locations could be folder trees, static files, non-Evergreen dynamic content, or other Apache features/modules. It is intended as a more patron-oriented and transparent version of the `OpenILS::WWW::Proxy` and `OpenILS::WWW:Proxy::Authen` modules.

Instead of using Basic Authentication the `AccessHandler` module instead redirects to the OPAC for login. Once logged in additional checks can be performed, based on configured variables:

- Permission Checks (at Home OU or specified location)
- Home OU Checks (Org Unit or Descendant)
- "Good standing" Checks (Not Inactive or Barred)

Use of the module is a simple addition to a `Location` block in Apache:

```
<Location /path/to/be/protected>
  PerlAccessHandler OpenILS::WWW::AccessHandler
  # For each option you wish to set:
  PerlSetVar OPTION "VALUE"
</Location>
```

The available options are:

`OILSAccessHandlerLoginURL` • Default: `/eg/opac/login`

- The page to redirect to when Login is needed

`OILSAccessHandlerLoginURLRedirectVar` • Default: `redirect_to`

- The variable the login page wants the "destination" URL stored in

`OILSAccessHandlerFailURL` • Default: `<unset>`

- URL to go to if Permission, Good Standing, or Home OU checks fail. If not set a 403 error is generated instead. To customize the 403 you could use an `ErrorDocument` statement.

`OILSAccessHandlerCheckOU` • Default: `<User Home OU>`

- Org Unit to check Permissions at and/or to load Referrer from. Can be a shortname or an ID.

`OILSAccessHandlerPermission` • Default: `<unset>`

- Permission, or comma- or space-delimited set of permissions, the user must have to access the protected area.

`OILSAccessHandlerGoodStanding` • Default: `0`

- If set to a true value the user must be both Active and not Barred.
- OILSAccessHandlerHomeOU
- Default: <unset>
 - An Org Unit, or comma- or space-delimited set of Org Units, that the user's Home OU must be equal to or a descendant of to access this resource. Can be set to shortnames or IDs.
- OILSAccessHandlerReferrerSetting
- Default: <unset>
 - Library Setting to pull a forced referrer string out of, if set.

As the AccessHandler module does not actually serve the content it is protecting, but instead merely hands control back to Apache when it is done authenticating, you can protect almost anything else you can serve with Apache.

Use Cases

The general use of this module is "protect access to something else" - what that something else is will vary. Some possibilities:

- Apache features
 - Automatic Directory Indexes
 - Proxies (see below)
 - Electronic Databases
 - Software on other servers/ports
- Non-Evergreen software
 - Timekeeping software for staff
 - Specialized patron request packages
- Static files and folders
 - Semi-public Patron resources
 - Staff-only downloads

Proxying Websites

One potentially interesting use of the AccessHandler module is to protect an Apache Proxy configuration. For example, after installing and enabling `mod_proxy`, `mod_proxy_http`, and `mod_proxy_html` you could proxy websites like so:

```
<Location /proxy/>
  # Base "Rewrite URLs" configuration
```



```

ProxyHTMLLinks a href
ProxyHTMLLinks area href
ProxyHTMLLinks link href
ProxyHTMLLinks img src longdesc usemap
ProxyHTMLLinks object classid codebase data usemap
ProxyHTMLLinks q cite
ProxyHTMLLinks blockquote cite
ProxyHTMLLinks ins cite
ProxyHTMLLinks del cite
ProxyHTMLLinks form action
ProxyHTMLLinks input src usemap
ProxyHTMLLinks head profile
ProxyHTMLLinks base href
ProxyHTMLLinks script src for

# To support scripting events (with ProxyHTMLExtended On)
ProxyHTMLEvents onclick ondblclick onmousedown onmouseup \
    onmouseover onmousemove onmouseout onkeypress \
    onkeydown onkeyup onfocus onblur onload \
    onunload onsubmit onreset onselect onchange

# Limit all Proxy connections to authenticated sessions by default
PerlAccessHandler OpenILS::WWW::AccessHandler

# Strip out Evergreen cookies before sending to remote server
RequestHeader edit Cookie "^(.*)ses=.*(?:$|;)(.*)" $1$2
RequestHeader edit Cookie "^(.*)eg_loggedin=.*(?:$|;)(.*)" $1$2
</Location>

<Location /proxy/example/>
# Proxy example.net
ProxyPass http://www.example.net/
ProxyPassReverse http://www.example.net/
ProxyPassReverseCookieDomain example.net example.com
ProxyPassReverseCookiePath / /proxy/example/

ProxyHTMLEnable On
ProxyHTMLURLMap http://www.example.net/ /proxy/example/
ProxyHTMLURLMap / /proxy/mail/
ProxyHTMLCharsetOut *

# Limit to BR1 and BR3 users
PerlSetVar OILSAccessHandlerHomeOU "BR1, BR3"
</Location>

```

As mentioned above, this can be used for multiple reasons. In addition to websites such as online databases for patron use you may wish to proxy software for staff or patron use to make it appear on your catalog domain, or perhaps to keep from needing to open extra ports in a firewall.

Chapter 44. ebook_api service

The `open-ils.ebook_api` service looks up title and patron information from specified ebook vendor APIs.

The Evergreen catalog accesses data from this service through OpenSRF JS bindings.

The `OpenILS::Utils::HTTPClient` module is required for this service.

Chapter 45. hold-targeter service

The `open-ils.hold-targeter` service is used to target holds.

Part V. Using the Browser Staff Client

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Chapter 46. Introduction

This part of the documentation deals with general Browser Client usage including logging in, navigation and shortcuts.

For information about the XUL client, consult the [Evergreen 2.11 documentation](#).

Chapter 47. Logging into Evergreen

Registering a Workstation

Before logging into Evergreen, you must first register a workstation from your browser.



You will need the permissions to add workstations to your network. If you do not have these permissions, ask your system administrator for assistance.

1. When you login for the first time, you will arrive at a screen asking that you register your workstation

Please register a workstation.

Register a New Workstation For This Browser

BR1 ▾ Workstation Name Register

Workstations Registered With This Browser

Use N-w Mark As Default Remove

2. Create a unique workstation name.
3. Click Register
4. After confirming the new workstation is listed in the Workstations Registered With This Browser menu, click Use Now to return to the login page. Your newly-registered workstation should be selected by default on the login page.

Basic Login,

1. The default URL to log into the client is <https://localhost/eg/staff/login>
2. Enter your Username and Password.
3. Verify that the correct workstation is selected and click Sign In.

Logging Out

To log out of the client:

1. Click the menu button to the right of your user name in the top-right corner of the window.
2. Select Log Out



Exiting all browser windows will automatically log you out of the web client. If you only close the tab where the web client is loaded, you will remain logged in.

Chapter 48. Best Practices for Using the Browser

Pop-up Blockers

Before using the web client, be sure to disable pop-up blockers for your Evergreen system's domain.

- In Chrome, select Settings from the Chrome menu and click on Content settings in the advanced section. Select Popups and then add your domain to the Allowed list.
- In Firefox, select Preferences from the Firefox menu and then select the Content panel. Click the Exceptions button and add your domain to the Allowed Sites list.

Setting Browser Defaults for Web Client

To ensure that staff can easily get to the web client portal page on login without additional steps, you can set the browser's home page to default to the web client.

Setting the Web Client as the Home Page in Chrome

1. In the top-right corner of your browser, click the Chrome menu.
2. Select Settings.
3. In the On startup section, select Open a specific page or set of pages.
4. Click the Set Pages link.
5. Add `https://localhost/eg/staff/` to the Enter URL box and click OK.

Setting the Web Client as the Home Page in Firefox

1. In the top-right corner of your browser, click the menu button.
2. Click Options.
3. In the When Firefox starts: dropdown menu, select Show my home page.
4. In the Home Page box, add `https://localhost/eg/staff/` and click OK.

Tab Buttons and Keyboard Shortcuts

Now that the client will be loaded in a web browser, users can use browser-based tab controls and keyboard shortcuts to help with navigation. Below are some tips for browser navigation that can be used in Chrome and Firefox on Windows PCs.

- Use CTRL-T or click the browser's new tab button to open a new tab.
- Use CTRL-W or click the x in the tab to close the tab.
- Undo closing a tab by hitting CTRL-Shift-Tab.
- To open a link from the web client in a new tab, CTRL-click the link or right-click the link and select Open Link in New Tab. Using this method, you can also open options from the web client's dropdown menus in a new tab
- Navigate from one tab to another using CTRL-Tab on the keyboard.

Setting New Tab Behavior

Some users may want to automatically open the web client's portal page in a new tab. Neither Chrome nor Firefox will open your home page by default when you open a new tab. However, both browsers have optional add-ons that will allow you to set the browsers to automatically open the home page whenever opening a new tab. These add-ons may be useful for those libraries that want the new tab to open to the web client portal page.

Chapter 49. Column Picker

From many screens and lists, you can click on the column picker drop-down menu to change which columns are displayed.

The screenshot shows a web interface for a library system. At the top, there are navigation links: Check Out, Items Out, Holds, Bills, Messages, Edit, and Other. A blue button labeled "Patron Search" is on the right. Below this is a search form with a text input containing "smith", and labels for "First Name" and "Middle Name". There are "Search" and "Clear Form" buttons. Below the search form, the "Patron Search Results" section shows a table with columns: #, ID, Created On, Mailing:Street 1, Home Library, Profile, DoB, Middle Name, and First Name. The table contains five rows of data. A column picker menu is open over the table, listing various columns with checkboxes and icons. The menu options are: Manage Columns, Manage Column Widths, Save Columns, Reset Columns, Download Full CSV, Print Full Grid, ID (checked), Created On (checked), Mailing:Street 1 (checked), Mailing:Street 2 (unchecked), Home Library (checked), Profile (checked), Mailing:State (unchecked), Mailing:Zip (unchecked), and Billing:Street 1 (unchecked).

When data are displayed in columns, you can add new columns, remove them, and change the display width. After customizing the display you may save your changes for future sessions under that login by choosing Save Columns from the drop-down menu. Some libraries use generic accounts and for those who do, staff need to be aware that their changes will be visible to anybody who uses the same staff account.

Save Columns

Some lists have a different design, and some of them can also be customized. Simply right-click the header row of any of the columns, and the column picker will appear. When you are finished customizing the display, scroll to the bottom of the Column Picker window and click Save.

The screenshot shows a web interface with a list of items. At the top, there are buttons for "Go Back", "Reload", and "Go Forward". Below these is a "Context Org Unit" field with "BR1" selected. There are links for "Back", "Next", and "Filter". The list has columns: #, Title, Author, ISxN, and Article Title. A "Column Picker" window is open over the list, showing a table with columns: Column, Display, Auto Width, and Sort Priority. The table lists the columns from the list and their settings: # (checked, unchecked, 0), Title (checked, checked, 0), Author (checked, checked, 0), ISxN (checked, checked, 0), and Article Title (checked, checked, 0). The "Sort Priority" column has a spinner control for each row.

Chapter 50. Recent Staff Searches

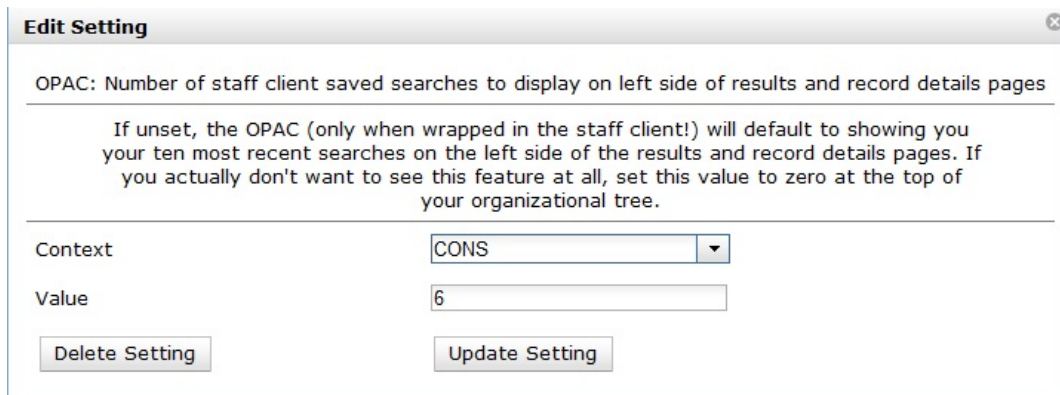
This feature enables you to view your recent searches as you perform them in the staff client. The number of searches that you can view is configurable. This feature is only available through the staff client; it is not available to patrons in the OPAC.

Administrative Settings

By default, ten searches will be saved as you search the staff client. If you want to change the number of saved searches, then you can configure the number of searches that you wish to save through the Library Settings Editor in the Admin module.

To configure the number of recent staff searches:

1. Click Admin → Local Administration → Library Settings Editor.
2. Scroll to OPAC: Number of staff client saved searches to display on left side of results and record details pages
3. Click Edit.
4. Select a Context from the drop down menu.
5. Enter the number of searches that you wish to save in the Value field.
6. Click Update Setting



Edit Setting [X]

OPAC: Number of staff client saved searches to display on left side of results and record details pages

If unset, the OPAC (only when wrapped in the staff client!) will default to showing you your ten most recent searches on the left side of the results and record details pages. If you actually don't want to see this feature at all, set this value to zero at the top of your organizational tree.

Context: CONS [v]

Value: 6

Delete Setting Update Setting



To retain this setting, the system administrator must restart the web server.

If you do not want to save any searches, then you can turn off this feature.

To deactivate this feature:

1. Follow steps 1-4 (one through four) as listed in the previous section.

2. In the value field, enter 0 (zero).
3. Click Update Setting. This will prevent you from viewing any saved searches.

Recent Staff Searches

Evergreen will save staff searches that are entered through either the basic or advanced search fields. To view recent staff searches:

1. Enter a search term in either the basic or advanced search fields.
2. Your search results for the current search will appear in the middle of the screen. The most recent searches will appear on the left side of the screen.


Search the Catalog [Advanced Search](#)
Search for in
[\[Click to Refine Your Original Search \]](#)

[Another Search](#) [Advanced Search](#) Sort by [Detailed View](#)

Search Results Results 1 - 10 of 11 (page 1 of 2)

Your recent searches:

- [bread](#)
- [spaghetti](#)
- [cooking](#)
- [recipe](#)
- [dog](#)
- [rain](#)

1.  [Retro kids cooking :](#)
[Perry, Richard.](#) c2004.
Call number: ACQ14
0 of 1 copy available

2.  [Retro kids cooking :](#)
[Perry, Richard.](#) c2004.
0 of 0 copies available

Chapter 51. Workstation Administration

Copy Editor: Copy Location Name First

By default, when editing item records, library code is displayed in front of shelving location in Shelving Location field. You may reverse the order by going to Admin → Workstation Administration → Copy Editor: Copy Location Name First. Simply click it to make copy location name displayed first. The setting is saved on the workstation.

Font and Sound Settings

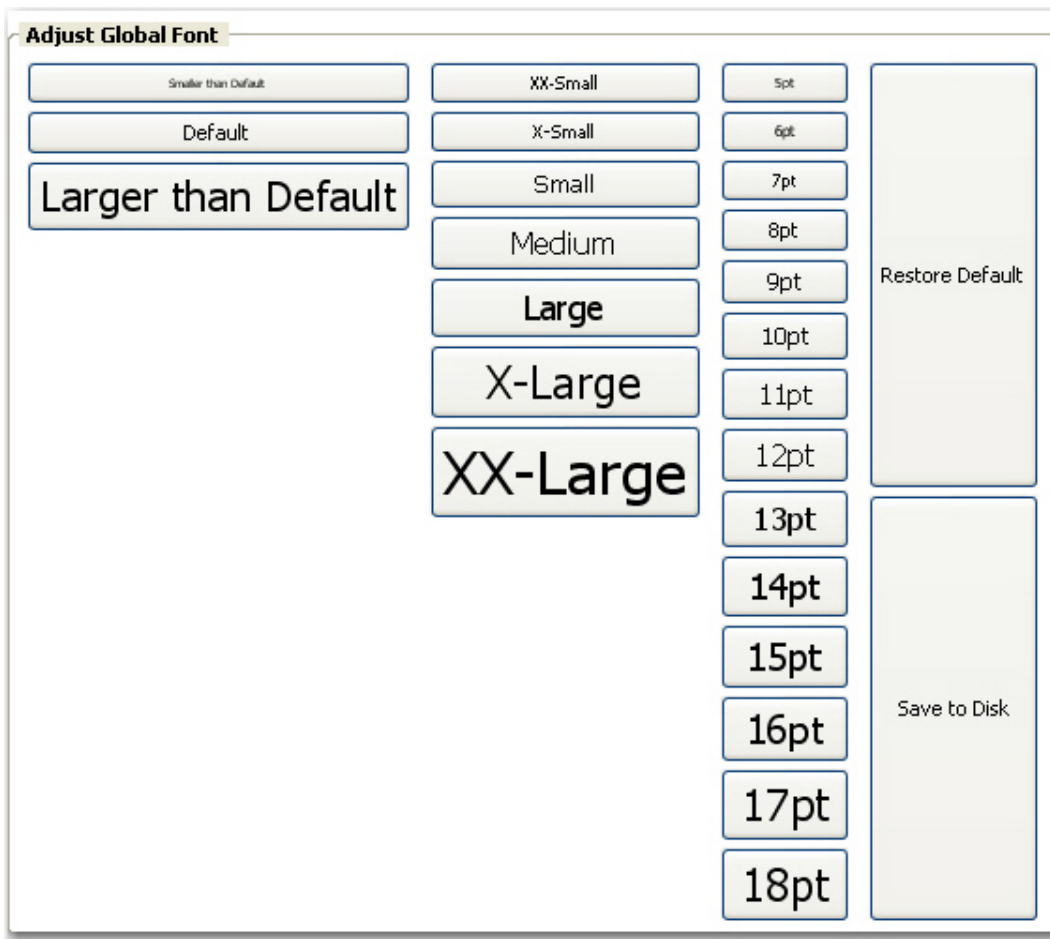
In the Staff Client

You may change the size of displayed text or turn staff client sounds on and off. These settings are specific to each workstation and stored on local hard disk. They do not affect OPAC font sizes.

1. Select Admin → Workstation Administration → Global Font and Sound Settings.
2. To turn off the system sounds, like the noise that happens when a patron with a block is retrieved, check the disable sound box and click Save to Disk.



3. To change the size of the font, pick the desired option and click Save to Disk.



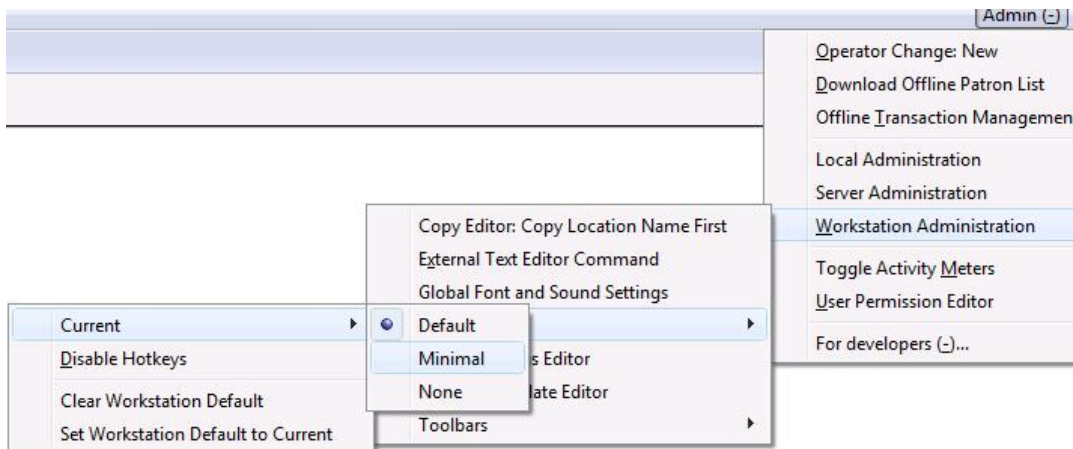
In the OPAC

It is also possible to zoom in and zoom out when viewing the OPAC in the staff client, making the font appear larger or smaller. (This will not affect other screens.) Use CTRL + + (plus sign, to zoom in), CTRL + - (minus sign, to zoom out), and CTRL + 0 (to restore default). The workstation will remember the setting.

Select Hotkeys

All or partial hotkeys can be turned on or off. It can be done for a particular workstation:

1. Navigate to Admin → Workstation Administration → Hotkeys → Current.
2. Select Default, Minimal, and None.



- Default: including all hotkeys
- Minimal: including those hotkeys using CTRL key
- None: excluding all hotkeys

3. Go back to the above menu.

4. Click Set Workstation Default to Current.

To clear the existing default click Clear Workstation Default.

You can use the Toggle Hotkeys button, included in some toolbars, on top right corner, to switch your selected Hotkeys on or off for the current login session. It has the same effect as when you click Disable Hotkeys on the Hotkeys menu.

Configure Printers

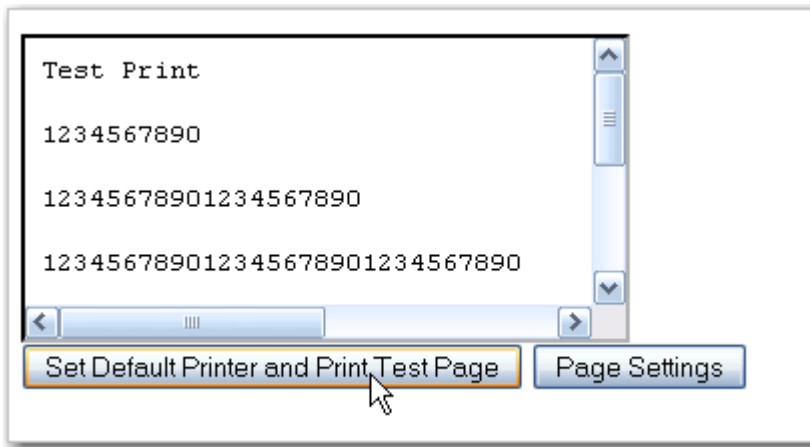
Use the Printer Settings Editor to configure printer output for each workstation. If left unconfigured Evergreen will use the default printer set in the workstation's operating system (Windows, OSX, Ubuntu, etc).

Evergreen printing works best if you are using recent, hardware-specific printer drivers.

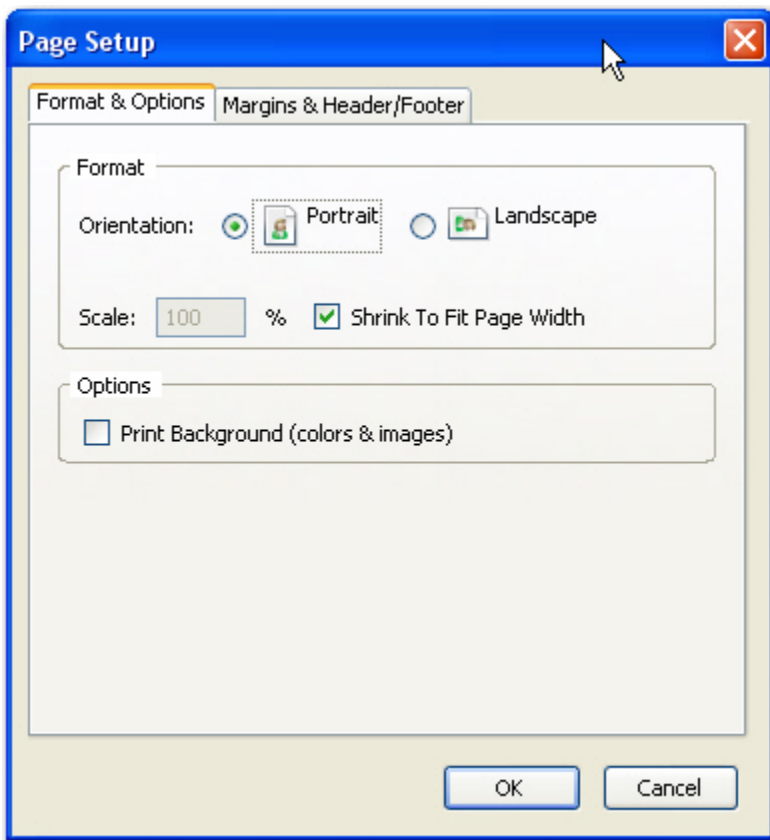
1. Select Admin → Workstation Administration → Printer Settings Editor.
2. Select the Printer Context. At a minimum set the Default context on each Evergreen workstation. Repeat the procedure for other contexts if they differ from the default (e.g. if spine labels should output to a different printer).



- Default: Default settings for staff client print functions (set for each workstation).
 - Receipt: Settings for printing receipts.
 - Label: Printer settings for spine and pocket labels.
 - Mail: Settings for printing mailed notices (not yet active).
 - Offline: Applies to all printing from the Offline Interface.
3. After choosing Printer Context click Set Default Printer and Print Test Page and follow the prompts. If successful, test output will print to your chosen printer.



4. (optional) To further format or customize printed output click Page Settings and adjust settings. When finished click OK and print another test page to view changes.



Advanced Settings

If you followed the steps above and still cannot print there are two alternate print strategies:

- DOS LPT1 Print (sends unformatted text directly to the parallel port)
- Custom/External Print (configuration required)



Evergreen cannot print using the Windows Generic/Text Only driver. If this driver is the only one available try one of the alternate print strategies instead.

Receipt Template Editor

There are many default receipt templates included with the Evergreen staff client. These templates are saved on individual workstations. Customization can be done workstation by workstation or by exporting the templates to import to other workstations.

All receipts in Evergreen follow a basic format of a Header, Line item and Footer.

The receipt templates follow full W3C html. <http://w3schools.com/html/default.asp>.

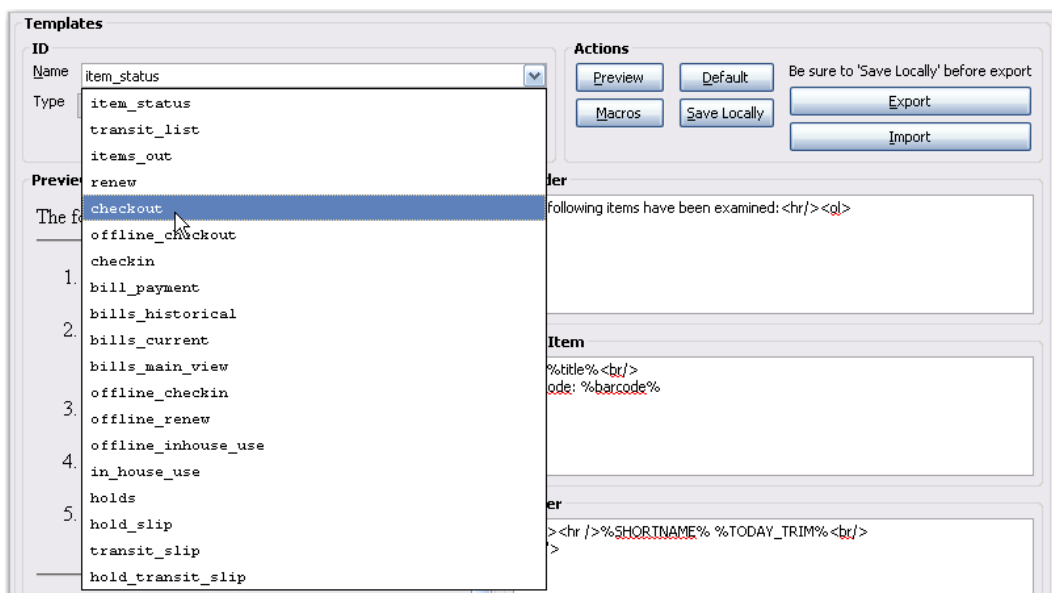
The Receipt Template Editor can be found at: Admin → Workstation Administration → Receipt Template Editor

The Editor can also be found on the default home page of the staff client.

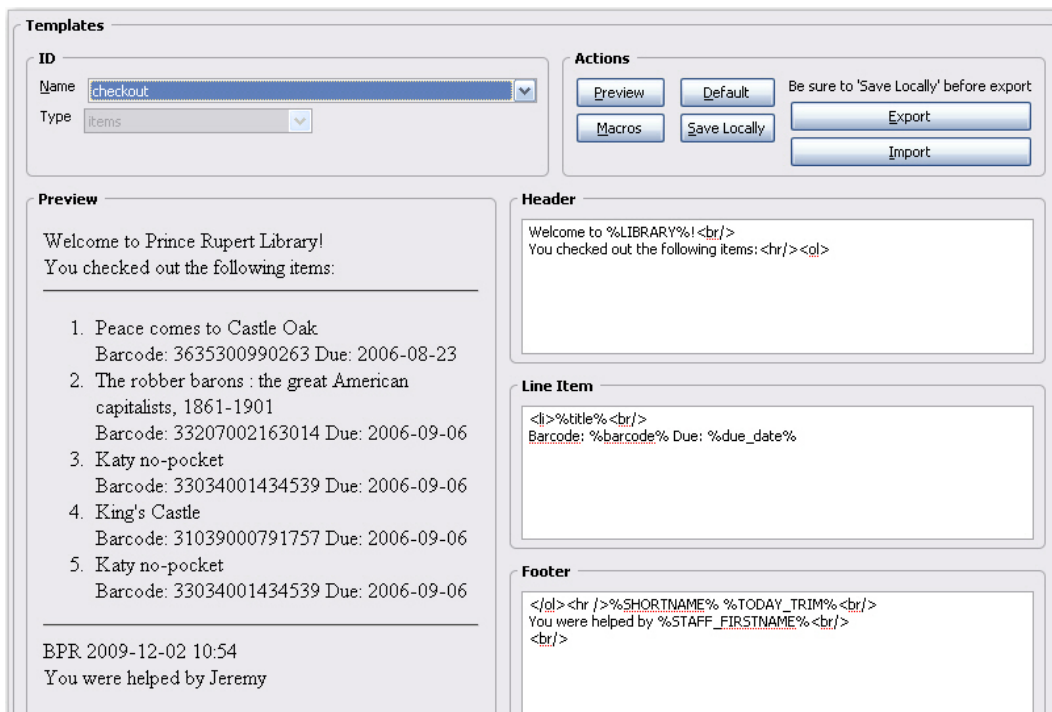
Receipts come in various types: Bills, checkout, items, holds, transits and Payments.

To edit a Receipt:

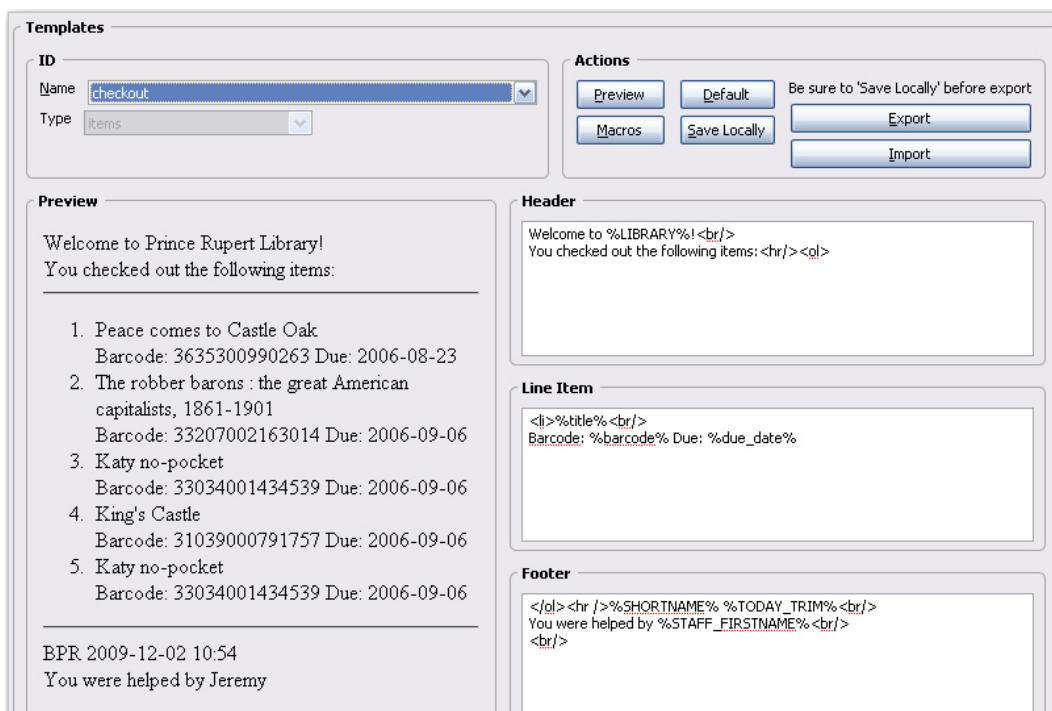
1. Select Admin → Workstation Administration → Receipt Template Editor.
2. Choose the Receipt in the drop down list.



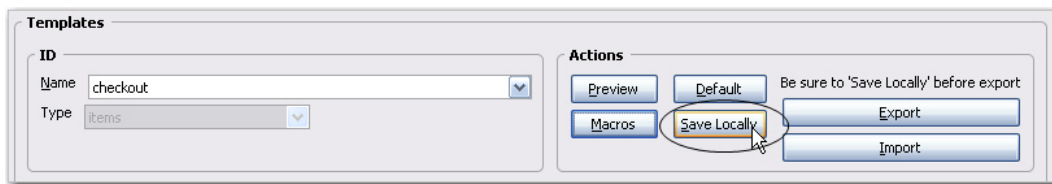
3. Make edits to the Receipt on the right hand side.



4. Click out of the section you are editing to see what your changes will look right on the Left hand side.



5. Click 'Save Locally' in the Upper right hand corner.



Receipt templates use macros for various pieces of information coming from the Evergreen database. Macros deal with everything from the Library name to the due date of an item. See list [Receipt Macros for the macros](#). You can also click on MACROS on the screen to see the macros that are available for a given receipt.



Remember: Not all Macros listed on the pop up screen will work. The listing of macros are drawn from the table that the receipt pulls information from. Some of the tables will not have any data in some of the fields. Example is the %mbts_xact_finish% on the Bills Current Slip, as this is a list of current bills, they would not have a finish date.

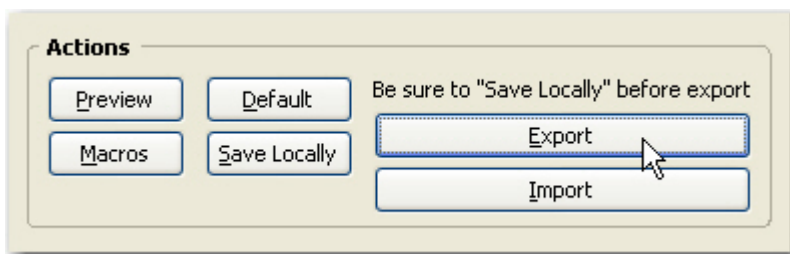
Exporting and importing Customized Receipts

Once you have your receipts set up on one machine you can export your receipts, and then load them on to another machine. Just remember to 'Save Locally' once you import the receipts on the new machine.

Exporting templates

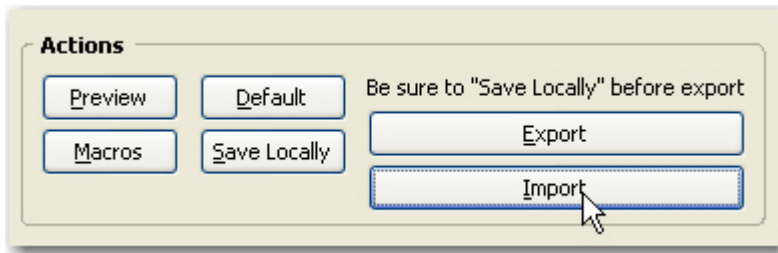
As you can only save a template on to the computer you are working on you will need to export the template if you have more than one computer that prints out receipts (i.e., more than one computer on the circulation desk, or another computer in the workroom that you use to checkin items or capture holds with)

1. Export.
2. Select the location to save the template to, name the template, and click Save.
3. Click OK.

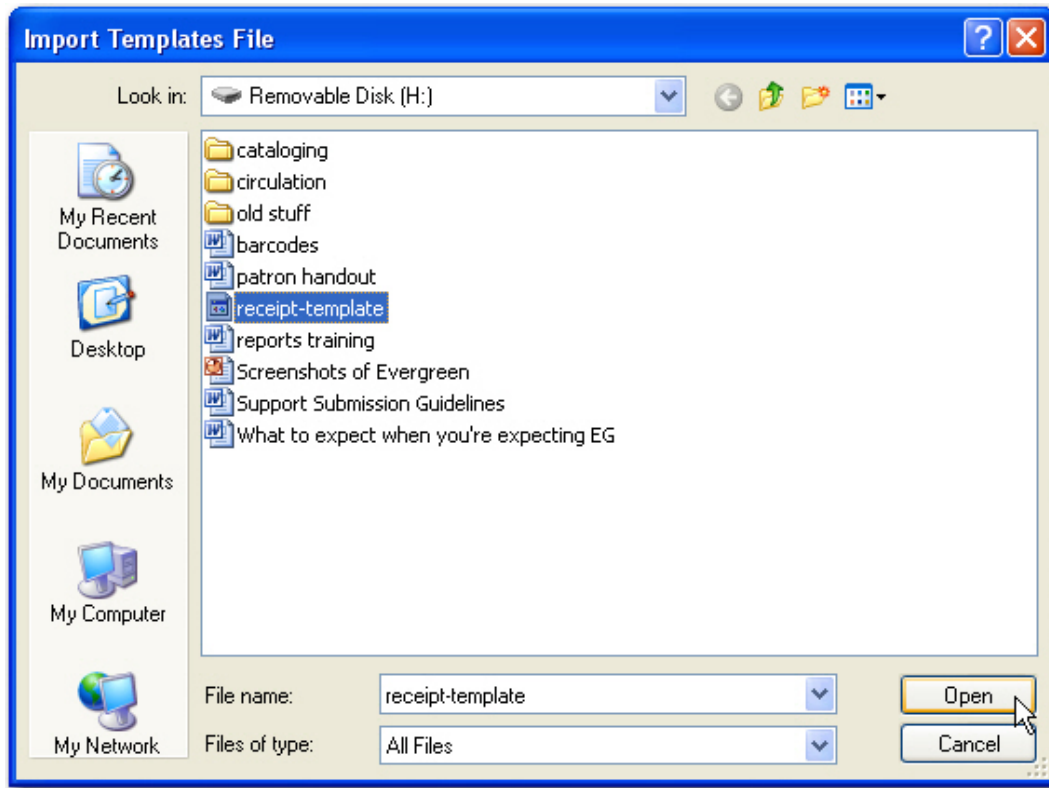


Importing Templates

1. Click Import.



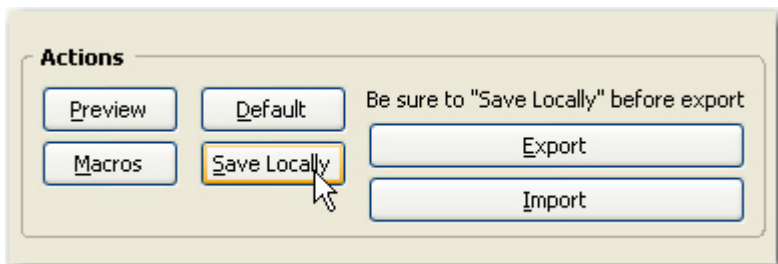
2. Navigate to and select the template that you want to import. Click Open.



3. Click OK.

4. Click Save Locally.

5. Click OK.



Receipt Customizations

Customizing the receipts is fairly simple once you realize what can be placed in each of the sections of the receipts. One thing to remember when customizing receipts to always 'Save Locally'. Checkouts, Hold Slip, Hold Transit Slip are customized below.



Always remember to 'Save Locally'.

Print Holds Slip with Landscape Layout

This feature enables you to use Mozilla-specific CSS to print holds with a landscape layout. To use the landscape layout:

1. Click Admin → Workstation Administration → Receipt Template Editor.
2. Select hold transit slip from the Template Name drop down menu.
3. Enter `<div>` before and after the block of text that you wish to rotate.
4. Enter the stylesheet text in the `<div>` bracket that appears before the block of text that you wish to rotate:
`<div style="moz-transform: rotate(90deg);">`
5. When you click out of this box, notice that the text in the Preview box on the left side of the screen has rotated 90 degrees.
6. You can further customize the look of the text by adjusting its height and width. The height and width that you specify will be unique to your printer.

For example, you could add the following height and width to your rotated text:

```
<div style="moz-transform: rotate(90deg);height: 300px; width: 200px;">
```

The screenshot shows the Receipt Template Editor interface. The 'Templates' section has 'Name' set to 'hold_transit_slip'. The 'Preview' section shows a receipt with rotated text. The 'Header' section shows the CSS code for the rotated text: `<div style = \"moz-transform: rotate(90deg); height: 300px; width: 200px;\">`. The 'Line Item' section shows the formatted note: `%formatted_note%
`.

7. The holds slip will print with the configured text in a landscape layout:

This item needs to be routed to **BD**:

Black Diamond
We do not have a holds
address for this library.

Barcode: 439851225939
Title: The Köln concert
Author: Jarrett, Keith

Hold for patron Smith, Bernard
Louis
Barcode: 382786
Notify by phone:

Checkout

This is the receipt that prints when items are checked out to individuals. Item you can customize are adding the library logo, adding information about renewals on the bottom of the receipt. If you notice at the end of the Footer the `
.
`, the allows an auto cut printer a little extra room so it will not cut the phone number off. The period is needed so the extra lines are added.

Header

```
<br/>
Welcome to %LIBRARY%!<br/>
You checked out the following items:
<hr/>
<ol>
```

Line Item

```
<li>%title%<br/>
By: %author%<br/>
Barcode: %barcode%<br/>
Due: %due_date%
```

Footer

```
</ol>
<hr />
```



```
%SHORTNAME% %TODAY_TRIM%<br/>
You were helped by %STAFF_FIRSTNAME%<br/>
<br/>
<center>If you want to renew your materials please visit<br/>
www.library.org<br/>
or call us at ###-###-####</center>
<br/>
<br/>
.<br/>
```

Hold_Slip #1

This is the slip that prints when a hold is fulfilled. Things to customize are the patrons name at the top of the slip, Bold the %hold_for_msg%, among others.

Header

```
<font size="6"><b>%PATRON_LASTNAME%, %PATRON_FIRSTNAME%</b>
</font><br/><br/><br/><br/>
This item needs to be routed to <b>%route_to%</b>:<br/>
Barcode: %item_barcode%<br/>
Title: %item_title%<br/>
<br/>
<b>%hold_for_msg%</b><br/>
Barcode: %PATRON_BARCODE%<br/>
Notify by phone: %notify_by_phone%<br/>
Notify by email: %notify_by_email%<br/>
```

Line Item

```
<em>%formatted_note%</em><br/>
```

Footer

```
Request date: %request_date%<br/>
<br/>
Slip Date: %TODAY_D% %TODAY_I%:%TODAY_M%<br/>
Printed by %STAFF_FIRSTNAME% at %SHORTNAME%<br/>.<br/>
```

Hold_Slip #2

This is the slip that prints when a hold is fulfilled. This slip uses the SUBSTR macro to truncate the Patrons Last name to the first 4 characters and the patron's barcode to the last 5 digits. This slip is designed for libraries that use self-serve holds. So, you will notice a lot of information about the hold is left off of the receipt.

Header

```
<p style="padding-top:80px; padding-bottom:80px">
<font size="6"><b>
%SUBSTR(0,4)%PATRON_LASTNAME%SUBSTR_END%
&nbsp;%SUBSTR(-5)%PATRON_BARCODE%SUBSTR_END%
</b></font></p>
</font><br/><br/><br/><br/>
This item needs to be routed to <b>%route_to%</b>:<br/>
Barcode: %item_barcode%<br/>
Title: %item_title%<br/>
<br/>
Notify by phone: %notify_by_phone%<br/>
```

Line Item

```
<em>%formatted_note%</em><br/>
```

Footer

```
Request date: %request_date%<br/>
<hr style="border: 1px dotted"/><br/>
Slip Date: %TODAY_TRIM%<br/>
Printed by %STAFF_FIRSTNAME% at %SHORTNAME%<br/>.<br/>
```

Hold transit slip

This is the slip that is printed when an Item is needed at another library for a hold. In this customization, the address of the library is removed, The library's shortname size is increased, and made a little more notable at top, and the patron's phone number and email address is removed from the slip.

Header

```
<font size="5">Route to %route_to%</font><br/><br/><br/>
This item needs to be routed to <b>%route_to%</b>:<br/>
%route_to_org_fullname%<br/><br/>
Barcode: %item_barcode%<br/>
Title: %item_title%<br/>
Author: %item_author%<br/><br/>
%hold_for_msg%<br/>
Barcode: %PATRON_BARCODE%<br/>
```

Line Item

```
<em>%formatted_note%</em><br/>
```

Footer

```
<br/>Request date: %request_date%<br/>
Slip Date: %TODAY_TRIM%<br/>
Printed at %SHORTNAME%<br/>
<br/><br/>.<br/>
```

Receipt Templates

This is a complete list of all the receipts currently in use in Evergreen.

item_status	type	items
	description	Listing of items inputted in to Item Status.
	default format	header The following items have been examined:<hr/>
	line_item	%title% Barcode: %barcode%
	footer	<hr />%SHORTNAME% %TODAY_TRIM% >
transit_list	type	transits
	description	List of items in transit.
	default format	header Transits:<hr/>
	line_item	From: %transit_source% To: %transit_dest_lib% When: %transit_source_send_time% >Barcode: %transit_item_barcode% Title: %transit_item_title%

		footer	<hr />%SHORTNAME% %TODAY_TRIM%
items_out	type	items	
	description		List of items a patron has checked out.
	default format	header	Welcome to %LIBRARY%! You have the following items:<hr/>
		line_item	%title% Barcode: %barcode% Due: %due_date%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
renew	type	items	
	description		List of items that have been renewed using the renew item screen
	default format	header	Welcome to %LIBRARY%! You have renewed the following items::<hr/>
		line_item	%title% Barcode: %barcode% Due: %due_date%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
checkout	type	items	
	description		List of items currently checked out to the patron during this transaction.
	default format	header	Welcome to %LIBRARY%! You checked out the following items::<hr/>
		line_item	%title% Barcode: %barcode% Due: %due_date%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
offline_checkout	type	offline_checkout	
	description		List of items checked out via the Standalone interface. Remember that Standalone interface does not have access to the database.
	default format	header	Patron %patron_barcode% You checked out the following items::<hr/>
		line_item	Barcode: %barcode% Due: %due_date%
		footer	<hr />%TODAY_TRIM%
checkin	type	items	

	description	List of items that have just been entered in to the check-in screens.
	default format	header You checked in the following items:<hr/>
	line_item	%title% Barcode: %barcode% Call Number: %call_number%
	footer	<hr />%SHORTNAME% %TODAY_TRIM%
bill_payment	type	payment
	description	Patron payment receipt
	default format	header Welcome to %LIBRARY%! A receipt of your transaction: <hr/> <table width="100%"> <tr> <td>Original Balance:</td> <td align="right">\$ %original_balance%</td> </tr> <tr> <td>Payment Method:</td> <td align="right">%payment_type %</td> </tr> <tr> <td>Payment Received:</td> <td align="right">\$%payment_received%</td> </tr> <tr> <td>Payment Applied:</td> <td align="right">\$%payment_applied%</td> </tr> <tr> <td>Billings Voided:</td> <td align="right">%voided_balance%</td> </tr> <tr> <td>Change Given:</td> <td align="right">\$%change_given%</td> </tr> <tr> <td>New Balance:</td> <td align="right">\$%new_balance%</td> </tr> </table> <p> Note: %note% </p> <p> Specific bills: <blockquote>
	line_item	Bill #%bill_id% %last_billing_type% Received: \$ %payment% %barcode% %title%
	footer	</blockquote> </p> <hr />%SHORTNAME% %TODAY_TRIM%
bills_historical	type	bills
	description	Listing of bills that have had payments made on them. This is used on the Bill History Transaction screen.
	default format	header Welcome to %LIBRARY%! You had the following bills:<hr/>
	line_item	<dt>Bill #%mbts_id% %title% </dt> <dd> <table> <tr valign="top"><td>Date::</td><td> %mbts_xact_start%</td></tr> <tr valign="top"><td>Type:</td><td>%xact_type%</td></tr> <tr valign="top"><td>Last Billing:</td><td>%last_billing_type% %last_billing_note %</td></tr> <tr valign="top"><td>Total Billed::</td><td>\$%total_owed%</td></tr> <tr valign="top"><td>Last Payment::</td><td> %last_payment_type% %last_payment_note%</td></tr> <tr valign="top"><td>Total Paid::</td><td>\$%total_paid%</td></tr> </table>

			<pre> valign="top"><td>Balance::</ td><td>\$\$balance_owed%</td></tr> </ table>
 </pre>
bills_current	<pre> footer type description default format </pre>	<pre> <hr />%SHORTNAME% %TODAY_TRIM%

 bills Listing of current bills for a patron. header Welcome to %LIBRARY%!
 You have the following bills:<hr/> </pre>	
	line_item	<pre> <dt>Bill ##%mbts_id%</dt> <dd> <table> <tr valign="top"><td>Date:</td><td> %mbts_xact_start%</td></tr> <tr valign="top"><td>Type:</td><td>%xact_type%</ td></tr> <tr valign="top"><td>Last Billing:</ td><td>%last_billing_type%
%last_billing_note %</td></tr> <tr valign="top"><td>Total Billed:</td><td>\$\$total_owed%</td></tr> <tr valign="top"><td>Last Payment:</td><td> %last_payment_type%
%last_payment_note%</ td></tr> <tr valign="top"><td>Total Paid:</ td><td>\$\$total_paid%</td></tr> <tr valign="top"><td>Balance:</td><td> \$\$balance_owed%</td></tr> </table>
 </pre>	
	footer	<pre> <hr />%SHORTNAME% %TODAY_TRIM%<br/ >
 </pre>	
offline_checkin	<pre> type description default format </pre>	<pre> offline_checkin List of item checked in via Standalone interface. Remember that Standalone interface does not have access to the database. header You checked in the following items:<hr/> </pre>	
	line_item	<pre> Barcode: %barcode% </pre>	
	footer	<pre> <hr />%TODAY_TRIM%

 </pre>	
offline_renew	<pre> type description default format </pre>	<pre> offline_renew List of items renewed via Standalone interface. Remember that Standalone interface does not have access to the database. header You renewed the following items:<hr/> </pre>	
	line_item	<pre> Barcode: %barcode% </pre>	
	footer	<pre> <hr />%TODAY_TRIM%

 </pre>	
offline_inhouse_use	<pre> type description </pre>	<pre> offline_inhouse_use List of item marked in-house use via Standalone interface. Remember that Standalone interface does not have access to the database. </pre>	

	default format	header	You marked the following in-house items used:<hr/>
		line_item	Barcode: %barcode%Uses: %count%
in_house_use	type	footer	<hr />%TODAY_TRIM%
	description	items	List of items inputted in to the In-house use.
	default format	header	You marked the following in-house items used:<hr/>
		line_item	Barcode: %barcode%Uses: %uses% %alert_message%
holds	type	footer	<hr />%TODAY_TRIM%
	description	holds	List of items on hold for a patron.
	default format	header	Welcome to %LIBRARY%! You have the following titles on hold:<hr/>
		line_item	%title%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
holds_on_bib	type	holds	
	description		This list is used to print the holds on a title record.
	default format	header	Welcome to %LIBRARY%! You have the following titles on hold:<hr/>
		line_item	%title%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
holds_for_patron	description		This list is used to print the holds on a patron record.
	type	holds	
	default format	header	Welcome to %LIBRARY%! You have the following titles on hold:<hr/>
		line_item	%title%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
holds_shelf	type	holds	

	description	This list is used to print the holds on the holds shelf.	
	default format	header	Welcome to %LIBRARY%! You have the following titles on hold:<hr/>
		line_item	%title%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
holds_pull_list	type	holds	
	description	This list is used to print the holds on the holds pull list.	
	default format	header	Welcome to %LIBRARY%! You have the following titles on hold:<hr/>
		line_item	%title%
		footer	<hr />%SHORTNAME% %TODAY_TRIM% You were helped by %STAFF_FIRSTNAME%
hold_slip	type	holds	
	description	This is printed when a hold is fulfilled.	
	default format	header	This item needs to be routed to %route_to%: Barcode: %item_barcode % Title: %item_title% %hold_for_msg % Barcode: %PATRON_BARCODE% Notify by phone: %notify_by_phone% Notified by text: %notify_by_text% Notified by email: %notify_by_email%
		line_item	%formatted_note%
		footer	 Request date: %request_date% Slip Date: %TODAY_TRIM% Printed by %STAFF_FIRSTNAME % at %SHORTNAME%
transit_slip	type	transits	
	description	This is printed when a item goes into transit.	
	default format	header	This item needs to be routed to %route_to%: %route_to_org_fullname% %street1% %street2% %city_state_zip % Barcode: %item_barcode% Title: %item_title% Author: %item_author%
		line_item	(Intentionally left blank)
		footer	Slip Date: %TODAY_TRIM% Printed by %STAFF_FIRSTNAME% at %SHORTNAME%
hold_transit_slip	type	transits	

	description	This is printed when a hold goes in-transit to another library.
	default format	header This item needs to be routed to %route_to%: %route_to_org_fullname% %street1% %street2% %city_state_zip% Barcode: %item_barcode% Title: %item_title% Author: %item_author% > %hold_for_msg% Barcode: %PATRON_BARCODE% Notify by phone: %notify_by_phone% Notified by text: %notify_by_text% Notified by email: %notify_by_email%
		line_item %formatted_note%
		footer Request date: %request_date% Slip Date: %TODAY_TRIM% Printed by %STAFF_FIRSTNAME% at %SHORTNAME%
holdings_maintenance	type	items
	description	This is printed from holding maintenance.
	default format	header Title: %title% Author: %author% ISBN: %isbn% Edition: %edition% PubDate: %pubdate% > TCN: %tcn_value% Record ID: %mvr_doc_id% Creator: %creator% Create Date: %create_date% > Editor: %editor% Edit Date: %edit_date%
		line_item %prefix% %tree_location% %suffix% %parts% %acp_status%
		footer <hr />%SHORTNAME% %TODAY_TRIM%

Receipt Template Editor Macros

Here is a list of the Receipt Template Macros that are in use on the receipts. There are two types of macros General and type specific. General Macros can be used on any of the receipts. Type specific macros are available depending on the type of the receipt.

General Macros

%LIBRARY% Library full name
 %SHORTNAME Library Policy Name
 %
 %STAFF_FIRSTNAME% First name of Staff login account
 %
 %STAFF_LASTNAME% Last name of Staff login account
 %
 %STAFF_BARCODE% Barcode of Staff login account
 %

%STAFF_PROFILE Profile of Staff login account
%

%PATRON_FIRSTNAME Name of Patron
%

%PATRON_LASTNAME Name of Patron
%

%PATRON_BARCODE Patron Barcode
% or
%patron_barcode
%

%TODAY% Full Date and time in the format: Wed Sep 21 2011 13:20:44 GMT-0400 (Eastern Daylight Time)

%TODAY_TRIM Date and time in a shorted format: 2011-09-21 13:21
%

%TODAY_m% Two digit Month: 09

%TODAY_d% Two digit Day: 21

%TODAY_Y% Year: 2011

%TODAY_H% Hour in 24 hour day: 13

%TODAY_I% Hour in 12 hour format: 1

%TODAY_M% Minutes of the Hour: 24

%TODAY_D% date in standard US format: 09/21/11

%TODAY_F% date in International Standard: 2011-09-21

%-TRIM% Trims white space before the macro

%TRIM-% Trims white space after the macro

%SUBSTR(%) Take substring starting at position # to end of string. If # is negative count backwards from end of string.
...
%SUBSTR_END
%

%SUBSTR(,)% Same as %SUBSTR(%)%, but limit to second provided number characters after start point. If second number is negative, count backwards instead of forwards.
...
%SUBSTR_END
%

There are several macros that can carry pre-built contents specific to individual libraries. The contents can be set up in local administration. For details see [Library Settings](#). Though text can be hard-coded in receipt templates, the pre-built contents will be automatically applied to receipts printed from all workstations without editing each template.

- %INCLUDE(notice_text)%
- %INCLUDE(alert_text)%
- %INCLUDE(event_text)%
- %INCLUDE(footer_text)%%

- %INCLUDE(header_text)%

Additional Macros for various slip types

Hold

%ROUTE_TO% It should say Hold Shelf if it is a hold being fulfilled
 %item_barcode Item Barcode
 %
 %item_title% Item Title
 %hold_for_msg Hold for Message: this gives the patron's Name
 %
 %PATRON_BARCODE% Patron's Barcode
 %
 %notify_by_phone% Phone number listed in the Hold Database. This may not be the same as what is in the Patron's record, as they can list another number when placing the hold.
 %
 %notify_by_email% Email listed in Hold Database. Same as phone number
 %
 %request_date The date that the Request was originally placed.
 %
 %formatted_note% Hold Notes (new to 2.1)
 %
 %notify_by_text% SMS contact number (new to 2.2)
 %

Check out

%title% Title
 %author% Author
 %barcode% Item Barcode
 %due_date% Due Date: formatted by the date field in the library settings editor

Payment

%original_balance% The original balance the patron owes
 %
 %payment_received% How much was received from the patron
 %
 %payment_applied% How much of the payment was applied
 %
 %payment_type% What type of payment was applied: IE Cash
 %
 %voided_balance% Any Voided balance
 %
 %change_given% How much change was given
 %

%new_balance The new balance on the account
 %
 %note% Any notes on the annotated payment
 %bill_id% or The id for the bill in the bill database
 %mbts_id%
 %payment% How much of the payment that was applied was applied to this title
 %title% Title that the payment was applied to.
 %last_billing_type% The type of bill that was last charged to the patron for this title
 %
 %last_billing_note% Notes on the last bill
 %
 %last_payment_type% Type of payment that was last used to pay the bill
 %
 %mbts_xact_start% The date that the bill was started
 %
 %last_payment_note% Notes on last payment
 %
 %xact_type% Type of Bill
 %barcode% Item barcode
 %title% title of item

Bills

%mbts_id% The id for the bill in the bill database
 %title% Title that the payment was applied to.
 %last_billing_type% The type of bill that was last charged to the patron for this bill
 %
 %last_billing_note% Notes on the last bill
 %
 %last_billing_ts% The time stamp for the last billing
 %
 %last_payment_type% Type of payment that was last used to pay the bill
 %
 %last_payment_note% Notes on last payment
 %
 %last_payment_ts% The time stamp for the last payment
 %
 %mbts_xact_start% The date that the bill was started (currently not working)
 %
 %xact_type% Type of Bill
 %title% title of item

Transit

Transit receipts come into two types, general Transit receipts and Transit slips. Transit receipts are listings of item that are in transits. Transit slips are Slips telling the staff that this item is in transit to another location.

Table 51.1. General Transits

%transit_item_author author
%
%transit_item_barcode Barcode of item in transit
%
%transit_item_callnumber Call number of item in transit
%
%transit_item_title Title of Item intransit
%
%transit_dest_dest Destination Library
%
%transit_source_sendtime Time sent intransit
%
%transit_source library that placed the item intransit.
%

Table 51.2. Transit Slip

%route_to% Library Policy Name that the item is in transit to
%route_to_org_fullname% Full Name that the item is in transit to
%
%street1% Library Street address Line 1 that the item is in transit to.
%street2% Library Street address Line 2 that the item is in transit to.
%city_state_zip% City, State, Zip of Library the Item is in transit to.
%
%item_barcode% Item barcode
%
%item_title% Item title
%item_author% Item Author
%
%hold_for_msg% Hold for Message: this gives the patron's name
%
%PATRON_BARCODE% Patron's Barcode
%
%notify_by_phone% Phone number listed in the Hold Database. This may not be the same as what is in the Patron's record, as they can list another number when placing the hold.
%
%notify_by_email% Email listed in Hold Database. Same as phone number
%
%notify_by_text% SMS contact number (new to 2.2)
%
%request_date% Date that the Request was originally placed
%

Part VI. System Administration From the Staff Client

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Chapter 52. Introduction

This part deals with the options in the Server Administration menu found in the staff client.

Chapter 53. Acquisitions Administration

Acquisitions Settings

Several settings in the Library Settings area of the Admin module pertain to functions in the Acquisitions module. You can access these settings by clicking Admin → Local Administration → Library Settings Editor.

- CAT: Delete bib if all copies are deleted via Acquisitions lineitem cancellation - If you cancel a line item, then all of the on order copies in the catalog are deleted. If, when you cancel a line item, you also want to delete the bib record, then set this setting to TRUE.
- Allow funds to be rolled over without bringing the money along - enables you to move a fund's encumbrances from one year to the next without moving unspent money. Unused money is not added to the next year's fund and is not available for use.
- Allows patrons to create automatic holds from purchase requests.
- Default circulation modifier - This modifier would be applied to items that are created in the acquisitions module
- Default copy location - This copy location would be applied to items that are created in the acquisitions module
- Fund Spending Limit for Block - When the amount remaining in the fund, including spent money and encumbrances, goes below this percentage, attempts to spend from the fund will be blocked.
- Fund Spending Limit for Warning - When the amount remaining in the fund, including spent money and encumbrances, goes below this percentage, attempts to spend from the fund will result in a warning to the staff.
- Rollover Distribution Formulae Funds - When set to true, during fiscal rollover, all distribution formulae will update to use new funds.
- Set copy creator as receiver - When receiving a copy in acquisitions, set the copy "creator" to be the staff that received the copy
- Temporary barcode prefix - Temporary barcode prefix for items that are created in the acquisitions module
- Temporary call number prefix - Temporary call number prefix for items that are created in the acquisitions module

Cancel/Delay reasons

The Cancel reasons link enables you to predefine the reasons for which a line item or a PO can be cancelled. A default list of reasons appears, but you can add custom reasons to this list. Applying the cancel reason will prevent the item from appearing in a claims list and will allow you to cancel debits associated with the purchase. Cancel reasons also enable you to delay a purchase. For example, you could create a cancel reason of back ordered, and you could choose to keep the debits associated with the purchase.

Create a cancel/delay reason

1. To add a new cancel reason, click Administration → Server Administration → Acquisitions → Cancel reasons.
2. Click New Cancel Reason.
3. Select a using library from the drop-down menu. The using library indicates the organizational units whose staff can use this cancel reason. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units.)
4. Create a label for the cancel reason. This label will appear when you select a cancel reason on an item or a PO.
5. Create a description of the cancel reason. This is a free text field and can comprise any text of your choosing.
6. If you want to retain the debits associated with the cancelled purchase, click the box adjacent to Keep Debits→
7. Click Save.

Delete a custom cancel/delay reason

You can delete custom cancel reason.

1. Select the checkbox for the custom cancel reason that should be deleted.
2. Click the Delete Selected button.



You cannot select the checkbox for any of the default cancel reasons because the system expects those reasons to be available to handle EDI order responses.

Claiming

Currently, all claiming is manual, but the admin module enables you to build claim policies and specify the action(s) that users should take to claim items.

Create a claim policy

The claim policy link enables you to name the claim policy and specify the organization that owns it.

1. To create a claim policy, click Admin → Server Administration → Acquisitions → Claim Policies.
2. Create a claim policy name. No limits exist on the number of characters that can be entered in this field.
3. Select an org unit from the drop-down menu. The org unit indicates the organizational units whose staff can use this claim policy. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list.

4. Enter a description. No limits exist on the number of characters that can be entered in this field.
5. Click Save.

Create a claim type

The claim type link enables you to specify the reason for a type of claim.

1. To create a claim type, click Admin → Server Administration → Acquisitions → Claim types.
2. Create a claim type. No limits exist on the number of characters that can be entered in this field.
3. Select an org unit from the drop-down menu. The org unit indicates the organizational units whose staff can use this claim type. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list.

4. Enter a description. No limits exist on the number of characters that can be entered in this field.
5. Click Save.

Create a claim event type

The claim event type describes the physical action that should occur when an item needs to be claimed. For example, the user should notify the vendor via email that the library is claiming an item.

1. To access the claim event types, click Admin → Server Administration → Acquisitions → Claim event type.
2. Enter a code for the claim event type. No limits exist on the number of characters that can be entered in this field.
3. Select an org unit from the drop-down menu. The org unit indicates the organizational units whose staff can use this event type. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list.

4. Enter a description. No limits exist on the number of characters that can be entered in this field.
5. If this claim is initiated by the user, then check the box adjacent to Library Initiated.



Currently, all claims are initiated by a user. The ILS cannot automatically claim an issue.

6. Click Save.

Create a claim policy action

The claim policy action enables you to specify how long a user should wait before claiming the item.

1. To access claim policy actions, click Admin → Server Administration → Acquisitions → Claim Policy Actions.
2. Select an Action (Event Type) from the drop-down menu.
3. Enter an action interval. This field indicates how long a user should wait before claiming the item.
4. In the Claim Policy ID field, select a claim policy from the drop-down menu.
5. Click Save.



You can create claim cycles by adding multiple claim policy actions to a claim policy.

Currency Types

Currency types can be created and applied to funds in the administrative module. When a fund is applied to a copy or line item for purchase, the item will be purchased in the currency associated with that fund.

Create a currency type

1. To create a new currency type, click Admin → Server Administration → Acquisitions → Currency types.
2. Enter the currency code. No limits exist on the number of characters that can be entered in this field.
3. Enter the name of the currency type in Currency Label field. No limits exist on the number of characters that can be entered in this field.
4. Click Save.

Edit a currency type

1. To edit a currency type, click your cursor in the row that you want to edit. The row will turn blue.
2. Double click. The pop-up box will appear, and you can edit the fields.
3. After making changes, click Save.



From the currency types interface, you can delete currencies that have never been applied to funds or used to make purchases.

Distribution Formulas

Distribution formulas allow you to specify the number of copies that should be distributed to specific branches. They can also serve as templates allowing you to predefine settings for your copies. You can create and reuse formulas as needed.

Create a distribution formula

1. Click Admin → Server Administration → Acquisitions → Distribution Formulas.
2. Click New Formula.
3. Enter a Formula Name. No limits exist on the number of characters that can be entered in this field.
4. Choose a Formula Owner from the drop-down menu. The Formula Owner indicates the organizational units whose staff can use this formula. This menu is populated with the

shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list.

5. Ignore the Skip Count field which is currently not used.
6. Click Save.
7. Click New Entry.
8. Select an Owning Library from the drop-down menu. This indicates the branch that will receive the items. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).
9. Select/enter any of the following copy details you want to predefine in the distribution formula.
 - Copy Location
 - Fund
 - Circ Modifier
 - Collection Code
10. In the Item Count field, enter the number of items that should be distributed to the branch. You can enter the number or use the arrows on the right side of the field.
11. Click Apply Changes. The screen will reload.
12. To view the changes to your formula, click Admin → Server Administration → Acquisitions → Distribution Formulas. The item_count will reflect the entries to your distribution formula.



To edit the Formula Name, click the hyperlinked name of the formula in the top left corner. A pop-up box will enable you to enter a new formula name.

Edit a distribution formula

To edit a distribution formula, click the hyperlinked title of the formula.

Electronic Data Interchange

Many libraries use Electronic Data Interchange (EDI) accounts to send purchase orders and receive invoices from providers electronically. In Evergreen users can setup EDI accounts and manage EDI messages in the admin module. EDI messages and notes can be viewed in the acquisitions module. See also the [EDI Installation Instructions](#) because this is required for use of EDI.

Entering SANs (Standard Address Numbers)

For EDI to work your library must have a SAN and each of your providers must each supply you with their SAN.

A SAN (Standard Address Number) is a unique 7 digit number that identifies your library.

Entering a Library's SAN

These steps only need to be done once per library.

1. In Evergreen select Admin → Server Administration → Organizational Units
2. Find your library in the tree on the left side of the page and click on it to open the settings.



Multi-branch library systems will see an entry for each branch but should select their system's top organization unit.

3. Click on the Address tab.
4. Click on the Mailing Address tab.
5. Enter your library's SAN in the field labeled SAN.
6. Click Save.

A screenshot of the Evergreen system's address settings form. The form has a tabbed interface with 'Main Settings', 'Hours of Operation', and 'Addresses' tabs. Under 'Addresses', there are sub-tabs for 'Physical Address', 'Holds Address', 'Mailing Address', and 'ILL Address'. The 'Mailing Address' tab is selected. The form contains several input fields: 'Type' (MAILING), 'Valid' (checked), 'Street 1' (1234 Main Street), 'Street 2' (empty), 'City' (Springfield), 'State' (BC), 'Zip' (V6B 5J3 with a warning icon), 'Country' (Canada), and 'SAN' (7654321). A 'Save' button is located at the bottom left of the form.

Entering a Provider's SAN

These steps need to be repeated for every provider with which EDI is used.

1. In Evergreen select Admin → Server Administration → Acquisitions → Providers.
2. Click the hyperlinked name of the provider you would like to edit.

✓	#	Provider Name	Code	Owner	Currency	Active	Default # Copies	Default Claim Policy	EDI Default	Email	Fax Phone	Holdings Tag	Phone	Prepaym Required	SAN	URL
<input type="checkbox"/>	1	Amazon	AMA_ZS	ZSP-A	Canadian Dollars	True	0							False		
<input type="checkbox"/>	2	Amazon	AMA_ZS	ZSP-B	Canadian Dollars	True	0							False		
<input type="checkbox"/>	3	Fictional Bookstor	FICB-TE	ZSP	Canadian Dollars	True	0							False		
<input type="checkbox"/>	4	New Fictional Bookstor	NFICB-TT	ZSP	Canadian Dollars	True	1							False		

1. Enter your provider's SAN in the field labeled SAN.
2. Click Save.

Active	<input checked="" type="checkbox"/>	Code	<input type="text" value="NFICB-TEST"/>
Currency	<input type="text" value="Canadian Dollars"/>	Default # Copies	<input type="text" value="1"/>
Default Claim Policy	<input type="text"/>	EDI Default	<input type="text"/>
Email	<input type="text"/>	Fax Phone	<input type="text"/>
Holdings Tag	<input type="text"/>	Owner	<input type="text" value="ZSP"/>
Phone	<input type="text"/>	Prepayment Required	<input type="checkbox"/>
Provider ID	<input type="text" value="773"/>	Provider Name	<input type="text" value="New Fictional Bookstore"/>
SAN	<input type="text" value="1234567"/>	URL	<input type="text"/>
<input type="button" value="Cancel"/>		<input type="button" value="Save"/>	

Create an EDI Account



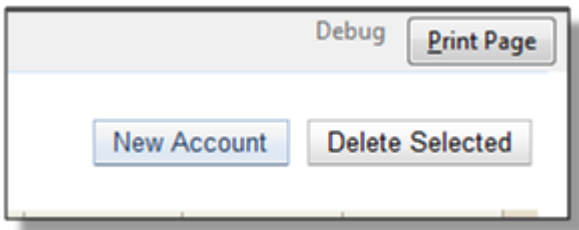
You must create your provider before you create an EDI account for the provider.

1. Contact your provider requesting the following information:
 - Host
 - Username

- Password
- Path
- Incoming Directory
- Provider's SAN

2. In Evergreen select Admin → Server Administration → Acquisitions → EDI Accounts.

3. Click New Account. A pop-up will appear.



1. Fill in the following fields:

- In the Label field, enter a name for the EDI account.
- In the Host field, enter the requisite FTP or SCP information supplied by your provider. Be sure to include the protocol (e.g. **ftp://ftp.vendorname.com**)
- In the Username field, enter the username supplied by your provider.
- In the Password field, enter the password supplied by your provider.
- Select your library as the Owner from the drop down menu. Multi-branch libraries should select their top level organizational unit.
- The Last Activity updates automatically with any inbound or outbound communication.
- In the Provider field, enter the code used in Evergreen for your provider.
- In the Path field, enter the path supplied by your provider. The path indicates a directory on the provider's server where Evergreen will deposit its outgoing order files.



If your vendor requests a specific file extension for EDI purchase orders, such as **.ord**, enter the name of the directory, followed by a slash, followed by an asterisk, followed by a period, followed by the extension. For example, if the vendor requests that EDI purchase orders be sent to a directory called **in** with the file extension **.ord**, your path would be **in/*.ord**.

- In the Incoming Directory field, enter the incoming directory supplied by your provider. This indicates the directory on the vendor's server where Evergreen will retrieve incoming order responses and invoices.



Don't worry if your incoming directory is named **out** or **outgoing**. From your vendor's perspective, this directory is outgoing, because it contains files that the vendor is sending to Evergreen. However, from Evergreen's perspective, these files are incoming.

Label	NFIC_ZSP
Host	ftp://ftp.nfic.com
Username	nfic/7777
Password	password
Account	
Owner	ZSP
Last Activity	
Provider	NFICB-TEST
Path	/*.fic
Incoming Directory	acq/
Vendor Account Number	
Vendor Assigned Code	
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

2. Click Save.
3. Click on the link in the Provider field.

EDI Accounts														<input type="button" value="New Account"/>	<input type="button" value="Delete Selected"/>
✓	#	Label	Host	Username	Password	Account	Owner	Last Activity	Provider	Path	Incoming Directory	Vendor Account Number	Vendor Assigned Code		
<input type="checkbox"/>	1	NFIC_ZSP	ftp://ftp.nfic.com	nfic/7777	password		ZSP		773	/*.fic	acq/				

1. Select the EDI account that has just been created from the EDI Default drop down menu.

Code	<input type="text" value="NFICB-TEST"/>
Default # Copies	<input type="text" value="1"/>
EDI Default	<input type="text" value=""/>
Fax Phone	<input type="text" value="NFIC_ZSP"/>
Owner	<input type="text" value="FAKE"/>
Prepayment Required	<input type="checkbox"/>
Provider Name	<input type="text" value="ZSP"/>
URL	<input type="text" value="New Fictional Bookstore"/>
	<input type="text" value=""/>

1. Click Save.

EDI Messages

The EDI Messages screen displays all incoming and outgoing messages between the library and its providers. To see details of a particular EDI message, including the raw EDIFACT message, double click on a message entry. To find a specific EDI message, the Filter options can be useful. Outside the Admin interface, EDI messages that pertain to a specific purchase order can be viewed from the purchase order interface (See Acquisitions → Purchase Orders).

Exchange Rates

Exchange rates define the rate of exchange between currencies. Evergreen will automatically calculate exchange rates for purchases. Evergreen assumes that the currency of the purchasing fund is identical to the currency of the provider, but it provides for two unique situations: If the currency of the fund that is used for the purchase is different from the currency of the provider as listed in the provider profile, then Evergreen will use the exchange rate to calculate the price of the item in the currency of the fund and debit the fund accordingly. When money is transferred between funds that use different currency types, Evergreen will automatically use the exchange rate to convert the money to the currency of the receiving fund. During such transfers, however, staff can override the automatic conversion by providing an explicit amount to credit to the receiving fund.

Create an exchange rate

1. To create a new exchange rate, click Admin → Server Administration → Acquisitions → Exchange Rates.
2. Click New Exchange Rate.
3. Enter the From Currency from the drop-down menu populated by the currency types.

4. Enter the To Currency from the drop-down menu populated by the currency types.
5. Enter the exchange Ratio.
6. Click Save.

Edit an exchange rate

Edit an exchange rate just as you would edit a currency type.

MARC Federated Search

The MARC Federated Search enables you to import bibliographic records into a selection list or purchase order from a Z39.50 source.

1. Click Acquisitions → MARC Federated Search.
2. Check the boxes of Z39.50 services that you want to search. Your local Evergreen Catalog is checked by default. Click Submit.

Search Sources

<input checked="" type="checkbox"/> Evergreen Catalog
<input type="checkbox"/> OCLC
<input checked="" type="checkbox"/> Library of Congress
<input type="checkbox"/> biblios.net

Search Fields

Author	<input type="text"/>
ISBN	<input type="text" value="978-1439164631"/>
ISSN	<input type="text"/>
Item Type	<input type="text"/>
LCCN	<input type="text"/>
Publication Date	<input type="text"/>
Publisher	<input type="text"/>
Title	<input type="text" value="left neglected"/>
Title Control Number	<input type="text"/>
Hits Per Source	<input type="text" value="10"/>

3. A list of results will appear. Click the Copies link to add copy information to the line item. See [Line Item Features](#) for more information.
4. Click the Notes link to add notes or line item alerts to the line item. See [Line Item Features](#) for more information.
5. Enter a price in the Estimated Price field.
6. You can save the line item(s) to a selection list by checking the box on the line item and clicking Actions → Save Items to Selection List. You can also create a purchase order from the line item(s) by checking the box on the line item and clicking Actions → Create Purchase Order.

Items	Notes	Actions	Status	Estimated Price
Copies(0)	Notes(0)	-- Actions --	new	<input type="text"/>

Fund Tags

You can apply tags to funds so that you can group funds for easy reporting. For example, you have three funds for children's materials: Children's Board Books, Children's DVDs, and Children's CDs. Assign a fund tag of children's to each fund. When you need to report on the amount that has been spent on all children's materials, you can run a report on the fund tag to find total expenditures on children's materials rather than reporting on each individual fund.

Create a Fund Tag

1. To create a fund tag, click Admin → Server Administration → Acquisitions → Fund Tags.
2. Click New Fund Tag. No limits exist on the number of characters that can be entered in this field.
3. Select a Fund Tag Owner from the drop-down menu. The owner indicates the organizational unit(s) whose staff can use this fund tag. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list.

4. Enter a Fund Tag Name. No limits exist on the number of characters that can be entered in this field.
5. Click Save.

Funding Sources

Funding sources allow you to specify the sources that contribute monies to your fund(s). You can create as few or as many funding sources as you need. These can be used to track exact amounts for accounts in your general ledger. You can then use funds to track spending and purchases for specific collections.

Create a funding source

1. To create a new funding source, click Admin → Server Administration → Acquisitions → Funding Source.
2. Enter a funding source name. No limits exist on the number of characters that can be entered in this field.
3. Select an owner from the drop-down menu. The owner indicates the organizational unit(s) whose staff can use this funding source. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list. For example, if a system is made the owner of a funding source, then users with appropriate permissions at the branches within the system could also use the funding source.

4. Create a code for the source. No limits exist on the number of characters that can be entered in this field.
5. Select a currency from the drop-down menu. This menu is populated from the choices in the Currency Types interface.
6. Click Save.

Allocate credits to funding sources

1. Apply a credit to this funding source.
2. Enter the amount of money that the funding source contributes to the organization. Funding sources are not tied to fiscal or calendar years, so you can continue to add money to the same funding source over multiple years, e.g. County Funding. Alternatively, you can name funding sources by year, e.g. County Funding 2010 and County Funding 2011, and apply credits each year to the matching source.
3. To apply a credit, click on the hyperlinked name of the funding source. The Funding Source Details will appear.
4. Click Apply Credit.

5. Enter an amount to apply to this funding source.
6. Enter a note. This field is optional.
7. Click Apply.

Allocate credits to funds

If you have already set up your funds, then you can then click the Allocate to Fund button to apply credits from the funding sources to the funds. If you have not yet set up your funds, or you need to add a new one, you can allocate credits to funds from the funds interface. See section 1.2 for more information.

1. To allocate credits to funds, click Allocate to Fund.
2. Enter the amount that you want to allocate.
3. Enter a note. This field is optional.
4. Click Apply.

Track debits and credits

You can track credits to and allocations from each funding source. These amounts are updated when credits and allocations are made in the Funding Source Details. Access the Funding Source Details by clicking on the hyperlinked name of the Funding Source.

Funds

Funds allow you to allocate credits toward specific purchases. In the funds interface, you can create funds; allocate credits from funding sources to funds; transfer money between funds; and apply fund tags to funds. Funds are created for a specific year, either fiscal or calendar. These funds are owned by org units. At the top of the funds interface, you can set a contextual org unit and year. The drop-down menu at the top of the screen enables you to focus on funds that are owned by specific organizational units during specific years.

Create a fund

1. To create a new fund, click Admin → Server Administration → Acquisitions → Funds.
2. Enter a name for the fund. No limits exist on the number of characters that can be entered in this field.
3. Create a code for the fund. No limits exist on the number of characters that can be entered in this field.
4. Enter a year for the fund. This can be a fiscal year or a calendar year. The format of the year is YYYY.

5. Select an org unit from the drop-down menu. The org unit indicates the organizational units whose staff can use this fund. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list. See section

6. Select a currency type from the drop-down menu. This menu is comprised of entries in the currency types menu. When a fund is applied to a line item or copy, the price of the item will be encumbered in the currency associated with the fund.
7. Click the Active box to activate this fund. You cannot make purchases from this fund if it is not active.
8. Enter a Balance Stop Percent. The balance stop percent prevents you from making purchases when only a specified amount of the fund remains. For example, if you want to spend 95 percent of your funds, leaving a five percent balance in the fund, then you would enter 95 in the field. When the fund reaches its balance stop percent, it will appear in red when you apply funds to copies.
9. Enter a Balance Warning Percent. The balance warning percent gives you a warning that the fund is low. You can specify any percent. For example, if you want to spend 90 percent of your funds and be warned when the fund has only 10 percent of its balance remaining, then enter 90 in the field. When the fund reaches its balance warning percent, it will appear in yellow when you apply funds to copies.
10. Check the Propagate box to propagate funds. When you propagate a fund, the ILS will create a new fund for the following fiscal year with the same parameters as your current fund. All of the settings transfer except for the year and the amount of money in the fund. Propagation occurs during the fiscal year close-out operation.
11. Check the Rollover box if you want to roll over remaining funds into the same fund next year. You should also check this box if you only want to roll over encumbrances into next year's fund.
12. Click Save.

Allocate credits from funding sources to funds

Credits can be applied to funds from funding sources using the fund interface. The credits that you apply to the fund can be applied later to purchases.

1. To access funds, click Admin → Server Administration → Acquisitions → Funds.
2. Click the hyperlinked name of the fund.
3. To add a credit to the fund, click the Create Allocation tab.
4. Choose a Funding Source from the drop-down menu.

5. Enter an amount that you want to apply to the fund from the funding source.
6. Enter a note. This field is optional.
7. Click Apply.

Transfer credits between funds

The credits that you allocate to funds can be transferred between funds if desired. In the following example, you can transfer \$500.00 from the Young Adult Fiction fund to the Children's DVD fund.

1. To access funds, click Admin → Server Administration → Acquisitions → Funds.
2. Click the hyperlinked name of the originating fund.
3. The Fund Details screen appears. Click Transfer Money.
4. Enter the amount that you would like to transfer.
5. From the drop-down menu, select the destination fund.
6. Add a note. This field is optional.
7. Click Transfer.

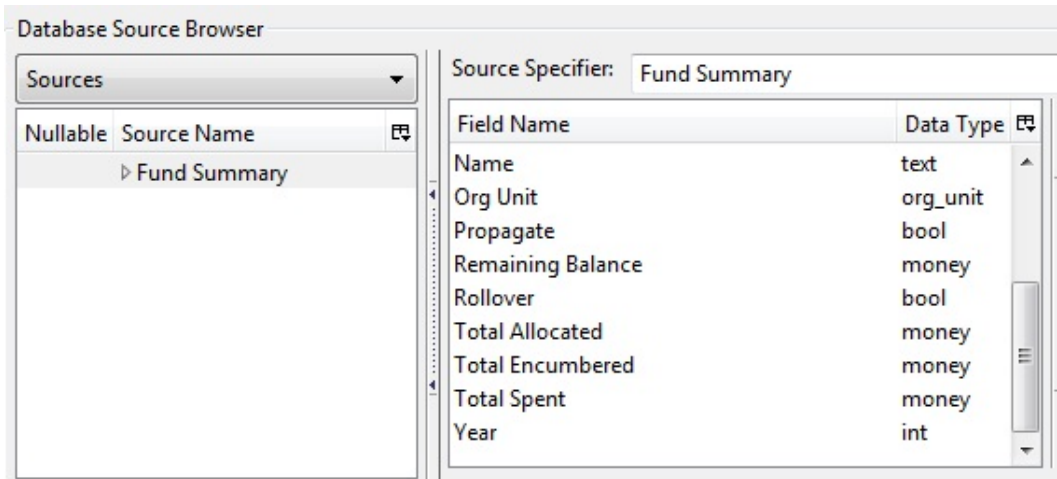
Track balances and expenditures

The Fund Details allows you to track the fund's balance, encumbrances, and amount spent. It also allows you to track allocations from the funding source(s), debits, and fund tags.

1. To access the fund details, click on the hyperlinked name of the fund that you created.
2. The Summary allows you to track the following:
3. Balance - The balance is calculated by subtracting both items that have been invoiced and encumbrances from the total allocated to the fund.
4. Total Allocated - This amount is the total amount allocated from the Funding Source.
5. Spent Balance - This balance is calculated by subtracting only the items that have been invoiced from the total allocated to the fund. It does not include encumbrances.
6. Total Debits - The total debits are calculated by adding the cost of items that have been invoiced and encumbrances.
7. Total Spent - The total spent is calculated by adding the cost of items that have been invoiced. It does not include encumbrances.
8. Total Encumbered - The total encumbered is calculated by adding all encumbrances.

Fund reporting

A core source, Fund Summary, is available in the reports interface. This core source enables librarians to easily run a report on fund activity. Fields that are accessible in this interface include Remaining Balance, Total Allocated, Total Encumbered, and Total Spent.



The screenshot shows the 'Database Source Browser' interface. On the left, a 'Sources' dropdown menu is open, showing 'Fund Summary' selected. Below it is a table with columns 'Nullable' and 'Source Name'. The 'Fund Summary' source is listed with a right-pointing arrow. On the right, the 'Source Specifier' is set to 'Fund Summary'. Below this is a table with columns 'Field Name' and 'Data Type'. The fields and their data types are:

Field Name	Data Type
Name	text
Org Unit	org_unit
Propagate	bool
Remaining Balance	money
Rollover	bool
Total Allocated	money
Total Encumbered	money
Total Spent	money
Year	int

Edit a fund

Edit a fund just as you would edit a currency type.

Perform fiscal year close-out operation

The Fiscal Year Close-Out Operation allows you to deactivate funds for the current year and create analogous funds for the next year. It transfers encumbrances to the analogous funds, and it rolls over any remaining funds if you checked the rollover box when creating the fund.

1. To access the year end closeout of a fund, click Admin → Server Administration → Acquisitions → Funds.
2. Click Fund Propagation and Rollover.
3. Check the box adjacent to Perform Fiscal Year Close-Out Operation.
4. For funds that have the "Rollover" setting enabled, if you want to move the fund's encumbrances to the next year without moving unspent money, check the box adjacent to Limit Fiscal Year Close-out Operation to Encumbrances.



The Limit Fiscal Year Close-out Operation to Encumbrances will only display if the Allow funds to be rolled over without bringing the money along Library Setting has been enabled. This setting is available in the Library Setting Editor accessible via Administration → Local Administration → Library Settings Editor.

Propagation creates new funds for the subsequent fiscal year based on the funds for the selected fiscal year. Only funds with the propagate setting enabled will be affected. No money or encumbrances are altered during this process.

Perform Fiscal Year Close-out Operation:

The year end close out operation moves encumbrances from the selected fiscal year to the analogous funds in the subsequent fiscal year and it deactivates funds for the selected fiscal year. Additionally, for all funds that have the "Rollover" setting enabled, this process will move all unspent money to the analogous fund in the subsequent fiscal year.

Limit Fiscal Year Close-out Operation to Encumbrances:

This modifies the above described Close-out Operation, causing funds to be transferred into the void (that is, entirely removed) instead of being transferred to the analogous funds in the subsequent fiscal year.

Context Org Unit: CONS

5. Notice that the context org unit reflects the context org unit that you selected at the top of the Funds screen.
6. If you want to perform the close-out operation on the context org unit and its child units, then check the box adjacent to Include Funds for Descendant Org Units.
7. Check the box adjacent to dry run if you want to test changes to the funds before they are enacted. Evergreen will generate a summary of the changes that would occur during the selected operations. No data will be changed.
8. Click Process.
9. Evergreen will begin the propagation process. Evergreen will make a clone of each fund, but it will increment the year by 1.

Invoice menus

Invoice menus allow you to create drop-down menus that appear on invoices. You can create an invoice item type or invoice payment method.

Invoice item type

The invoice item type allows you to enter the types of additional charges that you can add to an invoice. Examples of additional charge types might include taxes or processing fees. Charges for

bibliographic items are listed separately from these additional charges. A default list of charge types displays, but you can add custom charge types to this list. Invoice item types can also be used when adding non-bibliographic items to a purchase order. When invoiced, the invoice item type will copy from the purchase order to the invoice.

1. To create a new charge type, click Admin → Server Administration → Acquisitions → Invoice Item Type.
2. Click New Invoice Item Type.
3. Create a code for the charge type. No limits exist on the number of characters that can be entered in this field.
4. Create a label. No limits exist on the number of characters that can be entered in this field. The text in this field appears in the drop-down menu on the invoice.
5. If items on the invoice were purchased with the monies in multiple funds, then you can divide the additional charge across funds. Check the box adjacent to Prorate→ if you want to prorate the charge across funds.
6. Click Save.

Invoice payment method

The invoice payment method allows you to predefine the type(s) of invoices and payment method(s) that you accept. The text that you enter in the admin module will appear as a drop-down menu in the invoice type and payment method fields on the invoice.

1. To create a new invoice payment method, click Admin → Server Administration → Acquisitions → Invoice Payment Method.
2. Click New Invoice Payment Method.
3. Create a code for the invoice payment method. No limits exist on the number of characters that can be entered in this field.
4. Create a name for the invoice payment method. No limits exist on the number of characters that can be entered in this field. The text in this field appears in the drop-down menu on the invoice.
5. Click Save.

Payment methods can be deleted from this screen.

Line Item Features

Line item alerts are predefined text that can be added to line items that are on selection lists or purchase orders. You can define the alerts from which staff can choose. Line item alerts appear in a pop-up box when the line item, or any of its copies, are marked as received.

Create a line item alert

1. To create a line item alert, click Administration → Server Administration → Acquisitions → Line Item Alerts.
2. Click New Line Item Alert Text.
3. Create a code for the text. No limits exist on the number of characters that can be entered in this field.
4. Create a description for the text. No limits exist on the number of characters that can be entered in this field.
5. Select an owning library from the drop-down menu. The owning library indicates the organizational units whose staff can use this alert. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).
6. Click Save.

Line item MARC attribute definitions

Line item attributes define the fields that Evergreen needs to extract from the bibliographic records that are in the acquisitions database to display in the catalog. Also, these attributes will appear as fields in the New Brief Record interface. You will be able to enter information for the brief record in the fields where attributes have been defined.

Providers

Providers are vendors. You can create a provider profile that includes contact information for the provider, holdings information, invoices, and other information.

Create a provider

1. To create a new provider, click Admin → Server Administration → Acquisitions → Providers.
2. Enter the provider name.
3. Create a code for the provider. No limits exist on the number of characters that can be entered in this field.
4. Select an owner from the drop-down menu. The owner indicates the organizational units whose staff can use this provider. This menu is populated with the shortnames that you created for your libraries in the organizational units tree (See Admin → Server Administration → Organizational Units).



The rule of parental inheritance applies to this list.

5. Select a currency from the drop-down menu. This drop-down list is populated by the list of currencies available in the currency types.
6. A provider must be active in order for purchases to be made from that provider. To activate the provider, check the box adjacent to Active. To deactivate a vendor, uncheck the box.
7. Add the default # of copies that are typically ordered through the provider. This number will automatically populate the line item's Copies box on any PO's associated with this provider. If another quantity is entered during the selection or ordering process, it will override this default. If no number is specified, the default number of copies will be zero.
8. Select a default claim policy from the drop-down box. This list is derived from the claim policies that can be created
9. Select an EDI default. This list is derived from the EDI accounts that can be created.
10. Enter the provider's email address.
11. In the Fax Phone field, enter the provider's fax number.
12. In the holdings tag field, enter the tag in which the provider places holdings data.
13. In the phone field, enter the provider's phone number.
14. If prepayment is required to purchase from this provider, then check the box adjacent to prepayment required.
15. Enter the Standard Address Number (SAN) for your provider.
16. Enter the web address for the provider's website in the URL field.
17. Click Save.

Add contact and holdings information to providers

After you save the provider profile, the screen reloads so that you can save additional information about the provider. You can also access this screen by clicking the hyperlinked name of the provider on the Providers screen. The tabs allow you to add a provider address and contact, attribute definitions, and holding subfields. You can also view invoices associated with the provider.

1. Enter a Provider Address, and click Save.



Required fields for the provider address are: Street 1, city, state, country, post code. You may have multiple valid addresses.

2. Enter the Provider Contact, and click Save.
3. Your vendor may include information that is specific to your organization in MARC tags. You can specify the types of information that should be entered in each MARC tag. Enter attribute

definitions to correlate MARC tags with the information that they should contain in incoming vendor records. Some technical knowledge is required to enter XPath information. As an example, if you need to import the PO Name, you could set up an attribute definition by adding an XPath similar to:

```
code => purchase_order
xpath => //*[@tag="962"]/*[@code="p"]
Is Identifier => false
```

where 962 is the holdings tag and p is the subfield that contains the PO Name.

4. You may have entered a holdings tag when you created the provider profile. You can also enter holdings subfields. Holdings subfields allow you to specify subfields within the holdings tag to which your vendor adds holdings information, such as quantity ordered, fund, and estimated price.
5. Click invoices to access invoices associated with a provider.

Edit a provider

Edit a provider just as you would edit a currency type.

You can delete providers only if no purchase orders have been assigned to them.

Chapter 54. Age hold protection

Age hold protection prevents new items from filling holds requested for pickup at a library other than the owning library for a specified period of time.

You can define the protection period in Admin → Server Administration → Age Hold Protect Rules.

The protection period when applied to a copy record can start with the copy record create date (default) or active date. You can change this setting in Admin → Local Administration → Library Settings Editor: Use Active Date for Age Protection.

In addition to time period, you can set the proximity value to define which organizational units are allowed to act as pickup libraries. The proximity values affect holds as follows:

- "0" allows only holds where pickup library = owning library
- "1" allows holds where pickup library = owning library, parent, and child organizational units
- "2" allows holds where pickup library = owning library, parent, child, and/or sibling organizational units

Age protection only applies to individual copy records. You cannot configure age protection rules in hold policies.

Active date display in OPAC

If a library uses the copy's active date to calculate holds age protection, the active date will display with the copy details instead of the create date in the staff client view of the catalog. Libraries that do not enable the Use Active Date for Age Protection library setting will continue to display the create date.

Chapter 55. Authorities

Authority Control Sets

The tags and subfields that display in authority records in Evergreen are proscribed by control sets. The Library of Congress control set is the default control set in Evergreen. In Evergreen release 2.2, you can create customized control sets for authority records. Also, you can define thesauri and authority fields for these control sets.

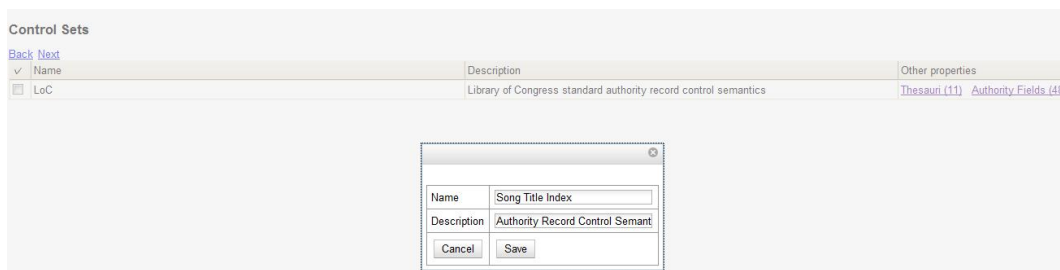
Patrons and staff will be able to browse authorities in the OPAC. The following fields are browsable by default: author, series, subject, title, and topic. You will be able to add custom browse axes in addition to these default fields.

You can specify the MARC tags and subfields that an authority record should contain. The Library of Congress control set exists in the staff client by default. The control sets feature enables librarians to add or customize new control sets.

To access existing control sets, click Admin → Server Administration → Authorities → Control Sets.

Add a Control Set

1. Click Admin → Server Administration → Authorities → Control Sets.
2. Click New Control Set.
3. Add a Name to the control set. Enter any number of characters.
4. Add a Description of the control set. Enter any number of characters.
5. Click Save.



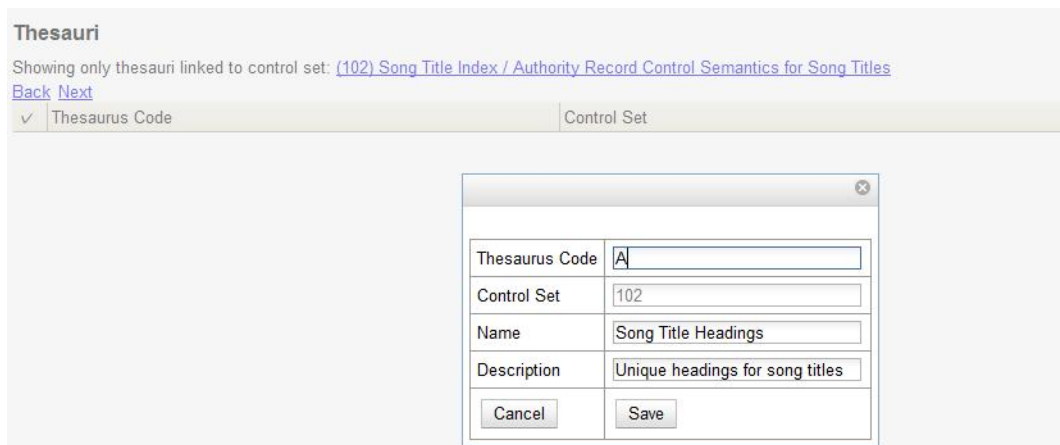
Thesauri

A thesaurus describes the semantic rules that govern the meaning of words in a MARC record. The thesaurus code, which indicates the specific thesaurus that should control a MARC record, is encoded in a fixed field using the mnemonic Subj in the authority record. Eleven thesauri associated with the Library of Congress control set exist by default in the staff client.

To access an existing thesaurus, click Admin → Server Administration → Authorities → Control Sets, and choose the hyperlinked thesaurus that you want to access, or click Admin → Server Administration → Authorities → Thesauri.

Add a Thesaurus

1. Click Admin → Server Administration → Authorities → Control Sets, and choose the hyperlinked thesaurus that you want to access, or click Admin → Server Administration → Authorities → Thesauri.
2. Click New Thesaurus.
3. Add a Thesaurus Code. Enter any single, upper case character. This character will be entered in the fixed fields of the MARC record.
4. Add a Name to the thesaurus. Enter any number of characters.
5. Add a Description of the thesaurus. Enter any number of characters.



The screenshot shows a web interface titled "Thesauri". Below the title, it says "Showing only thesauri linked to control set: (102) Song Title Index / Authority Record Control Semantics for Song Titles". There are "Back" and "Next" links. Below this is a table with two columns: "Thesaurus Code" and "Control Set". A modal dialog box is open in the center, containing a form with the following fields:

Thesaurus Code	<input type="text" value="A"/>
Control Set	<input type="text" value="102"/>
Name	<input type="text" value="Song Title Headings"/>
Description	<input type="text" value="Unique headings for song titles"/>
<input type="button" value="Cancel"/> <input type="button" value="Save"/>	

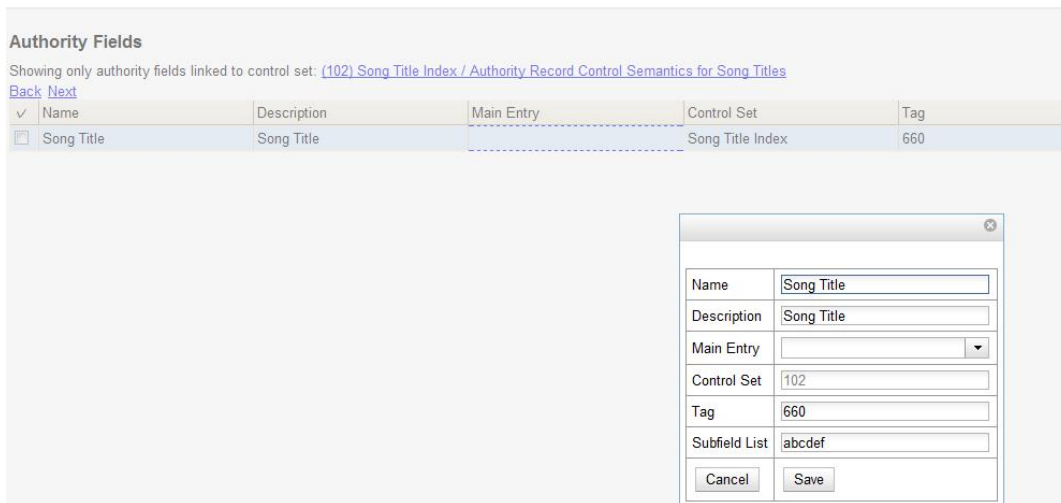
Authority Fields

Authority fields indicate the tags and subfields that should be entered in the authority record. Authority fields also enable you to specify the type of data that should be entered in a tag. For example, in an authority record governed by a Library of Congress control set, the 100 tag would contain a "Heading - Personal Name." Authority fields also enable you to create the corresponding tag in the bibliographic record that would contain the same data.

Create an Authority Field

1. Click Admin → Server Administration → Authorities → Control Sets.
2. Click Authority Fields. The number in parentheses indicates the number of authority fields that have been created for the control set.
3. Click New Authority Field.
4. Add a Name to the authority field. Enter any number of characters.
5. Add a Description to describe the type of data that should be entered in this tag. Enter any number of characters.

6. Select a Main Entry if you are linking the tag(s) to another entry.
7. Add a tag in the authority record.
8. Add a subfield in the authority record. Multiple subfields should be entered without commas or spaces.
9. Add either a value of 1, 2, or leave empty if not applicable for the Non-filing indicator field to denote the which will be the non-filing indicator.
10. Click Save.



11. Create the corresponding tag in the bibliographic record that should contain this information. Click the None link in the Controlled Bib Fields column.

12. Click New Control Set Bib Field.

13. Add the corresponding tag in the bibliographic record.

14. Click Save.

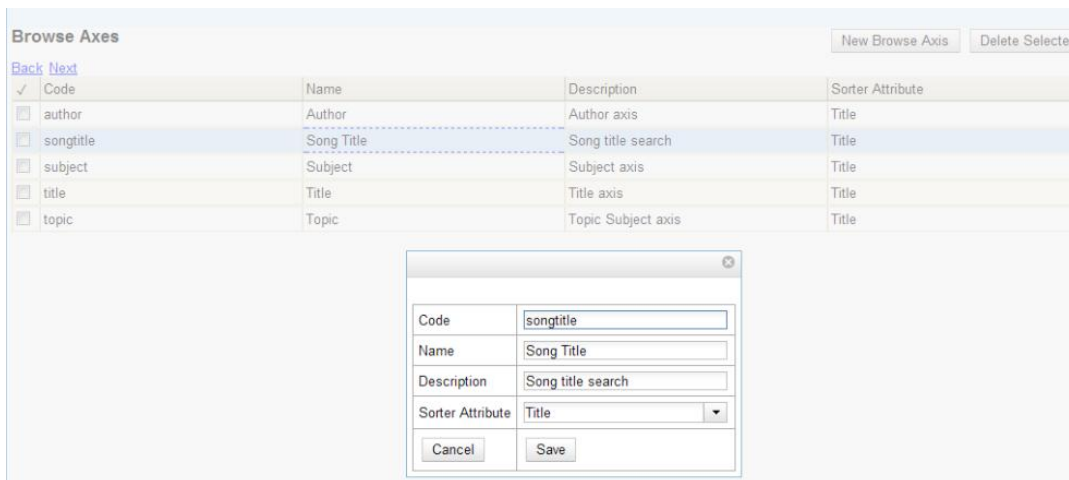


Browse Axes

Authority records can be browsed, by default, along five axes: author, series, subject, title, and topic. Use the Browse Axes feature to create additional axes.

Create a new Browse Axis

1. Click Admin → Server Administration → Authorities → Browse Axes
2. Click New Browse Axis.
3. Add a code. Do not enter any spaces.
4. Add a name to the axis that will appear in the OPAC. Enter any number of characters.
5. Add a description of the axis. Enter any number of characters.
6. Add a sorter attribute. The sorter attribute indicates the order in which the results will be displayed.

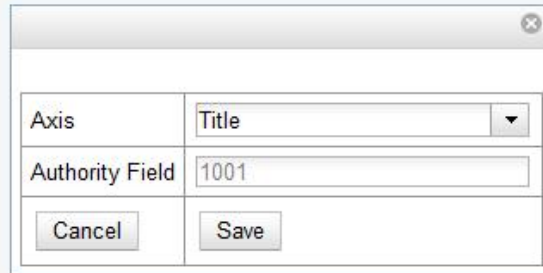


7. Assign the axis to an authority so that users can find the authority record when browsing authorities. Click Admin → Server Administration → Authorities → Control Sets.
8. Choose the control set to which you will add the axis. Click Authority Fields
9. Click the link in the Axes column of the tag of your choice.
10. Click New Browse Axis-Authority Field Map.
11. Select an Axis from the drop down menu.
12. Click Save.

Browse Axis-Authority Field Maps

Showing only browse axis-authority field maps linked to authority field: [Song Title \(660 1abcdef\) Song Title](#)
[Back](#) [Next](#)

✓ Axis



Axis	Title
Authority Field	1001

Cancel Save

Permissions to use this Feature

To use authority control sets, you will need the following permissions:

- CREATE_AUTHORITY_CONTROL_SET
- UPDATE_AUTHORITY_CONTROL_SET
- DELETE_AUTHORITY_CONTROL_SET

Chapter 56. Best-Hold Selection Sort Order

Best-Hold Selection Sort Order allows libraries to configure customized rules for Evergreen to use to select the best hold to fill at opportunistic capture. When a copy is captured for a hold upon check-in, Evergreen evaluates the holds in the system that the item could fill. Evergreen uses a set of rules, or a Best-Hold Selection Sort Order, to determine the best hold to fill with the item. In previous version of Evergreen, there were two sets of rules for Evergreen to use to determine the best hold to fulfill: Traditional and FIFO (First In, First Out). Traditional uses Org Unit Proximity to identify the nearest hold to fill. FIFO follows a strict order of first-in, first-out rules. This feature allows new, custom Best-Hold Selection Sort Orders to be created. Existing Best-Hold Selection Sort Orders can also be modified.

Preconfigured Best-Hold Orders

Evergreen comes with six preconfigured Best-Hold Selection Sort Orders to choose from:

- Traditional
- Traditional with Holds-go-home
- Traditional with Holds-always-go-home
- FIFO
- FIFO with Holds-go-home
- FIFO with Holds-always-go-home

The Holds-go-home and Holds-always-go-home options allow libraries to determine how long they want to allow items to transit outside of the item's home library, before it must return to its home library to fulfill any holds that are to be picked up there. Libraries can set this time limit in the library setting Holds: Max foreign-circulation time. The Library Settings Editor can be found under Admin → Local Administration → Library Settings Editor.

Create a New Best-Hold Selection Sort Order

To create a new Best-Hold Selection Sort Order, go to Admin → Server Administration → Best-Hold Selection Sort Order.

1. Click Create New.
2. Assign your Best-Hold Selection Sort Order a Name.
3. Next, use the Move Up and Move Down buttons to arrange the fields in the order that you would like Evergreen to check when looking for the best hold to fill with a copy at opportunistic capture.
4. Click Save Changes to create your custom Best-Hold Selection Sort Order.

Go Back | Reload | Go Forward

Best-Hold Selection Sort Order

Create New or Edit Existing

You are editing best-hold order #1: Traditional.

Name: Traditional

Order:

- [pprox] Capture Lib to Pickup Lib Proximity
- [aprox] Adjusted Circ Lib to Pickup Lib Proximity
- [priority] Hold Priority
- [cut] Hold Cut-in-line State
- [depth] Hold Selection Depth
- [ptime] Hold Request Time
- [itime] Copy Has Circulated From Home Lately
- [hprox] Circ Lib to Request Lib Proximity
- [approx] Adjusted Capture Location to Pickup Lib Proximity
- [shitime] Copy Has Been Home At All Lately

↑ Move Up k

↓ Move Down j

Because rtime, a high-precision timestamp, is essentially unique among holds, no fields arranged after rtime really have any effect in determining best-hold selection.

To choose which Best-Hold Selection Sort Order will be used by Evergreen at copy capture time, see the Library Settings interface.

Save Changes

Edit an Existing Best-Hold Selection Sort Order

To edit an existing Best-Hold Selection Sort Order, go to Admin → Server Administration → Best-Hold Selection Sort Order.

1. Click Edit Existing.
2. Choose the Best-Hold Selection Sort Order that you would like to edit from the drop down menu.
3. Next, use the Move Up and Move Down buttons to arrange the fields in the new order that you would like Evergreen to check when looking for the best hold to fill with a copy at opportunistic capture.
4. Click Save Changes to save your edits.

Choosing the Best-Hold Selection Sort Order

The Best-Hold Selection Sort Order can be set for an Org Unit in the Library Settings Editor.

To select the Best-Hold Selection Sort Order that your Org Unit will use:

1. Go to Admin → Local Administration → Library Settings Editor.
2. Locate the setting Holds: Best-hold selection sort order, and click Edit.
3. Choose the Context org unit for this setting.
4. Select the Best-hold selection sort order, or Value, from the drop down menu.
5. Click Update Setting.

Go Back **Reload** Go Forward Debug **Print Page**

Organization Unit Settings Context Location: APEX | holds | Filter Clear Filter Export Import

* Indicates the setting is not inherited from the parent org unit at run time

Group	Setting	Context	Value
History	Block hold request if hold recipient privileges have expired	APEX	False
History	Checkout Fills Related Hold	CONS	True
History	Checkout Fills Related Hold On Valid Copy Only		
History	Hold Shelf Status Delay		
History	Target copies for a hold even if copy's circ lib is closed		
History	Target copies for a hold even if copy's circ lib is closed IF the circ lib is the hold's pickup lib		
History	Behind Desk Pickup Supported	CONS	True
History	Best-hold selection sort order		
History	Block Renewal of Items Needed for Holds	CONS	True
History	Canceled holds, first-in, first-out	CONS	6 months
History	Canceled	CONS	25
History	Clear shelf		
History	Default Estimated Wait	CONS	14 days
History	Default hold	APEX	1 day
History	Expire After	APEX	5 days
History	Expire Interval	CONS	365 days
History	FIFO		
History	Hard bound		
History	Hard stall		
History	Has Local Copy Alert	CONS	False
History	Has Local Copy Block	APEX	False
History	Max foreign-circulation time	CONS	6 months
History	Maximum library target attempts		
History	Minimum Estimated Wait	CONS	14 days
History	Orig Unit Target Weight		
History	Reset request time on un-cancel	CONS	True
History	Skip For Hold Targeting		
History	Soft boundary	APEX	

Edit Setting

Best-hold selection sort order

Defines the sort order of holds when selecting a hold to fill using a given copy at capture time

Context: APEX

Value: **FIFO**

Options: Traditional, Traditional with Holds-always-go-home, Traditional with Holds-go-home, **FIFO**, FIFO with Holds-always-go-home, FIFO with Holds-go-home

Buttons: Delete Setting

Permissions to use this Feature

To administer the custom Best-Hold Selection Sort Order interface, you need the following permission:

- ADMIN_HOLD_CAPTURE_SORT

Chapter 57. Booking Module Administration

Creating Bookable Non-Bibliographic Resources

Staff with the required permissions (Circulator and above) can create bookable non-bibliographic resources such as laptops, projectors, and meeting rooms.

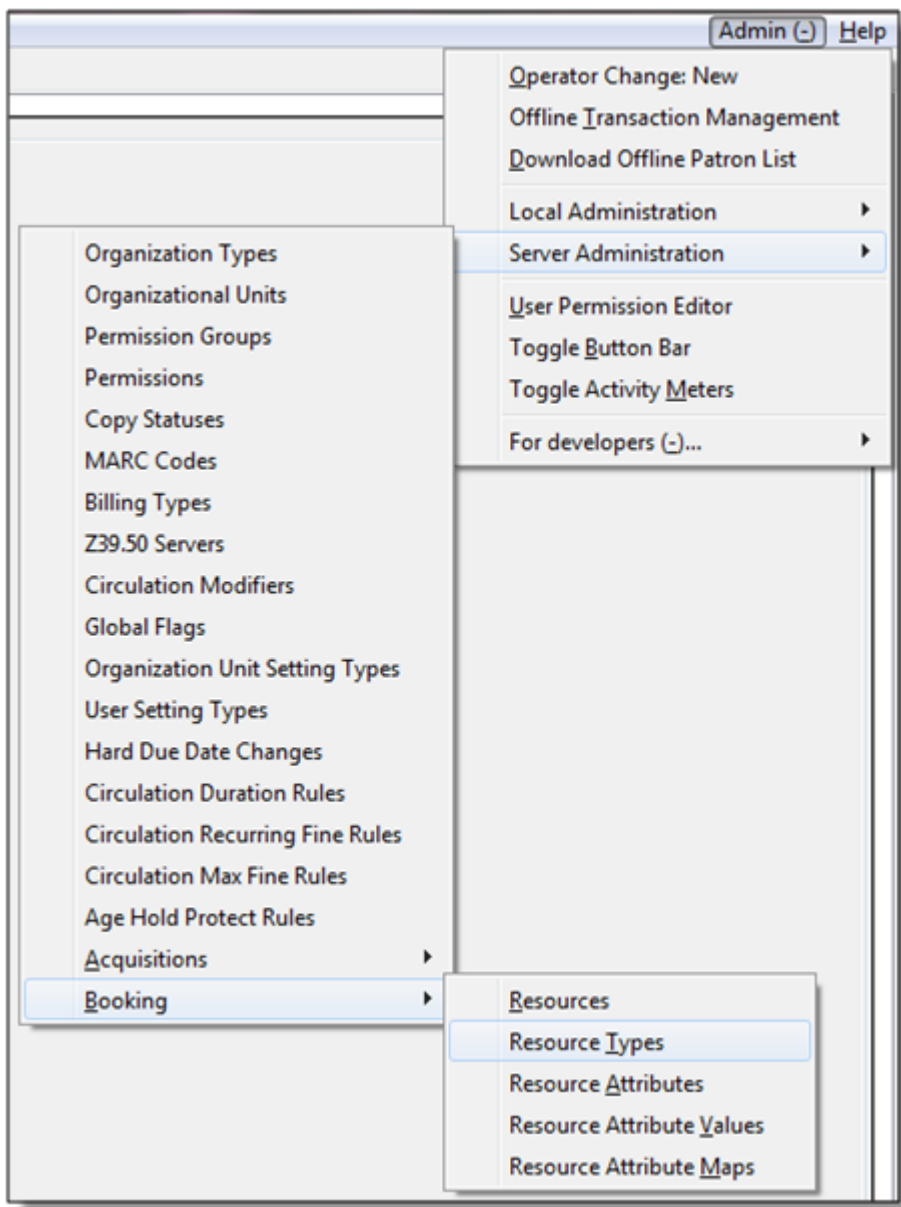
The following pieces make up a non-bibliographic resource:

- Resource Type
- Resource Attribute
- Resource Attribute Values
- Resource
- Resource Attribute Map

You need to create resource types and resource attributes (features of the resource types), and add booking items (resources) to individual resource type. Each resource attribute may have multiple values. You need to link the applicable features (resource attributes and values) to individual item (resource) through the Resource Attribute Map. Before you create resources (booking items) you need to have a resource type and associated resource attributes and values, if any, for them.

Create New Resource Type

1) Select Admin --> Server Administration --> Booking --> Resource Types.



2) A list of current resource types will appear. Use Back and Next buttons to browse the whole list.

Server Settings

Go Back Reload Go Forward

Resource Types

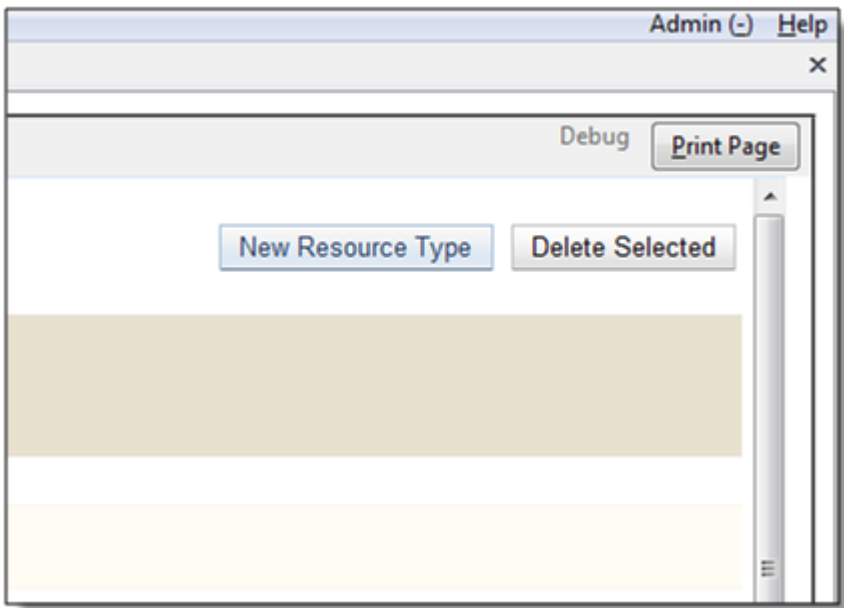
[Back](#) [Next](#)

<input checked="" type="checkbox"/>	Resource Type Name	Fine Interval	Fine Amount	Owning Library	Catalog Item	Transferable	Inter-booking and Inter-circulation Interval	Max Fine Amount
<input type="checkbox"/>	Dora's box		0.00	BPR	True	True		
<input type="checkbox"/>	Double Fudge		0.00	BPR	True	True		
<input type="checkbox"/>	Ereader	1 day	3.00	BPR	False	False	01:00:00	10.00
<input type="checkbox"/>	Horse		0.00	BPR	True	True		
<input type="checkbox"/>	Projector	03:00:00	2.00	BPR	False	False	00:15:00	20.00
<input type="checkbox"/>	Room		0.00	BPR	False	False	00:20:00	
<input type="checkbox"/>	Superfudge		0.00	BPR	True	True		
<input type="checkbox"/>	Video Connector	02:00:00	0.50	BPR	False	False	00:15:00	5.00



You may also see cataloged items in the list. Those items have been marked bookable or booked before.

3) To create a new resource type, click New Resource Type in the top right corner, .



4) A box will appear in which you create your new type of resource.

Resource Type Name	Laptop
Fine Interval	2 hours
Fine Amount	0.50
Owning Library	BPR
Catalog Item	<input type="checkbox"/>
Transferable	<input type="checkbox"/>
Inter-booking and Inter-circulation Interval	15 minutes
Max Fine Amount	20.00
Cancel	Save

- Resource Type Name - Give your resource a name.
- Fine Interval - How often will fines be charged? This period can be input in several ways:



- second(s), minute(s), hour(s), day(s), week(s), month(s), year(s)
- sec(s), min(s)
- s, m, h
- 00:00:30, 00:01:00, 01:00:00

- Fine Amount - The amount that will be charged at each Fine Interval.
- Owning Library - The home library of the resource.
- Catalog Item - (Function not currently available.)
- Transferable - This allows the item to be transferred between libraries.
- Inter-booking and Inter-circulation Interval - The amount of time required by your library between the return of a resource and a new reservation for the resource. This interval uses * the same input conventions as the Fine Interval.
- Max Fine Amount - The amount at which fines will stop generating.

5) Click Save when you have entered the needed information.



6) The new resource type will appear in the list.

The screenshot shows a web interface titled 'Server Settings'. At the top, there are three buttons: 'Go Back', 'Reload', and 'Go Forward'. Below these is a section titled 'Resource Types' with links for 'Back' and 'Next'. A table lists various resource types with columns for selection, name, fine interval, fine amount, owning library, catalog item, transferable status, inter-booking interval, and max fine amount. The 'Laptop' row is highlighted in blue.

<input checked="" type="checkbox"/>	Resource Type Name	Fine Interval	Fine Amount	Owning Library	Catalog Item	Transferable	Inter-booking and Inter-circulation Interval	Max Fine Amount
<input type="checkbox"/>	Dora's box		0.00	BPR	True	True		
<input type="checkbox"/>	Double Fudge		0.00	BPR	True	True		
<input type="checkbox"/>	Ereader	1 day	3.00	BPR	False	False	01:00:00	10.00
<input type="checkbox"/>	Horse		0.00	BPR	True	True		
<input checked="" type="checkbox"/>	Laptop	02:00:00	0.50	BPR	False	False	00:15:00	20.00
<input type="checkbox"/>	Projector	03:00:00	2.00	BPR	False	False	00:15:00	20.00
<input type="checkbox"/>	Room		0.00	BPR	False	False	00:20:00	
<input type="checkbox"/>	Superfudge		0.00	BPR	True	True		
<input type="checkbox"/>	Video Connector	02:00:00	0.50	BPR	False	False	00:15:00	5.00

Create New Resource Attribute

1) Select Server Administration --> Booking --> Resource Attributes.

2) Click New Resource Attribute in the top right corner.

3) A box will appear in which you can add the attributes of the resource. Attributes are categories of descriptive information that are provided to the staff member when the booking request is made. For example, an attribute of a projector may be the type of projector. Other attributes might be the number of seats available in a room, or the computing platform of a laptop.

Resource Attribute Name	Computing Platform
Owning Library	BPR
Resource Type	Laptop
Is Required	<input type="checkbox"/>
Cancel	Save

- Resource Attribute Name - Give your attribute a name.
- Owning Library - The home library of the resource.
- Resource Type - Type in the first letter to list then choose the Resource Type to which the Attribute is applicable.
- Is Required - (Function not currently available.)

4) Click Save when the necessary information has been entered.

5) The added attribute will appear in the list.



One resource type may have multiple attributes. You may repeat the above procedure to add more.

Create New Resource Attribute Value

1) One resource attribute may have multiple values. To add new attribute value, select Server Administration → Booking → Resource Attribute Values.

2) Click New Resource Attribute Value in the top right corner.

3) A box will appear in which you assign a value to a particular attribute. Values can be numbers, words, or a combination of them, that describe the particular aspects of the resource that have been defined as Attributes. As all values appear on the same list for selection, values should be as unique as possible. For example, a laptop may have a computing platform that is either PC or Mac.

Owning Library	BPR
Resource Attribute	Computing Platform
Valid Value	PC
Cancel	Save

- Owning Library - The home library of the resource.
- Resource Attribute - The attribute you wish to assign the value to.
- Valid Value - Enter the value for your attribute.

4) Click Save when the required information has been added.

5) The attribute value will appear in the list. Each attribute should have at least two values attached to it; repeat this process for all applicable attribute values.

Create New Resource

1) Add items to a resource type. Click Admin → Server Administration → Booking → Resources.

2) Click New Resource in the top right corner.

3) A box will appear. Add information for the resource.

Owning Library	BPR
Resource Type	Laptop
Barcode	98723000112255
Overbook	<input type="checkbox"/>
Is Deposit Required	<input type="checkbox"/>
Deposit Amount	
User Fee	
Cancel	Save

- Owning Library - The home library of the resource.
 - Resource Type - Type in the first letter of the resource type's name to list then select the resource type for your item.
 - Barcode - Barcode for the resource.
 - Overbook - This allows a single item to be reserved, picked up, and returned by multiple patrons during overlapping or identical time periods.
 - Is Deposit Required - (Function not currently available.)
 - Deposit Amount - (Function not currently available.)
 - User Fee - (Function not currently available.)
- 4) Click Save when the required information has been added.
 - 5) The resource will appear in the list.



One resource type may have multiple resources attached.

Map Resource Attributes and Values to Resources

- 1) Use Resource Attribute Maps to bring together the resources and their attributes and values. Select Admin → Server Administration → Booking → Resource Attribute Maps.
- 2) Click New Resource Attribute Map in the right top corner.
- 3) A box will appear in which you will map your attributes and values to your resources.

Resource	<input type="text" value="98723000112255"/>
Resource Attribute	<input type="text" value="Computing Platform"/>
Attribute Value	<input type="text" value="PC"/>
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

- Resource - Enter the barcode of your resource.
- Resource Attribute - Select an attribute that belongs to the Resource Type.

- Attribute Value - Select a value that belongs to your chosen attribute and describes your resource. If your attribute and value do not belong together you will be unable to save.

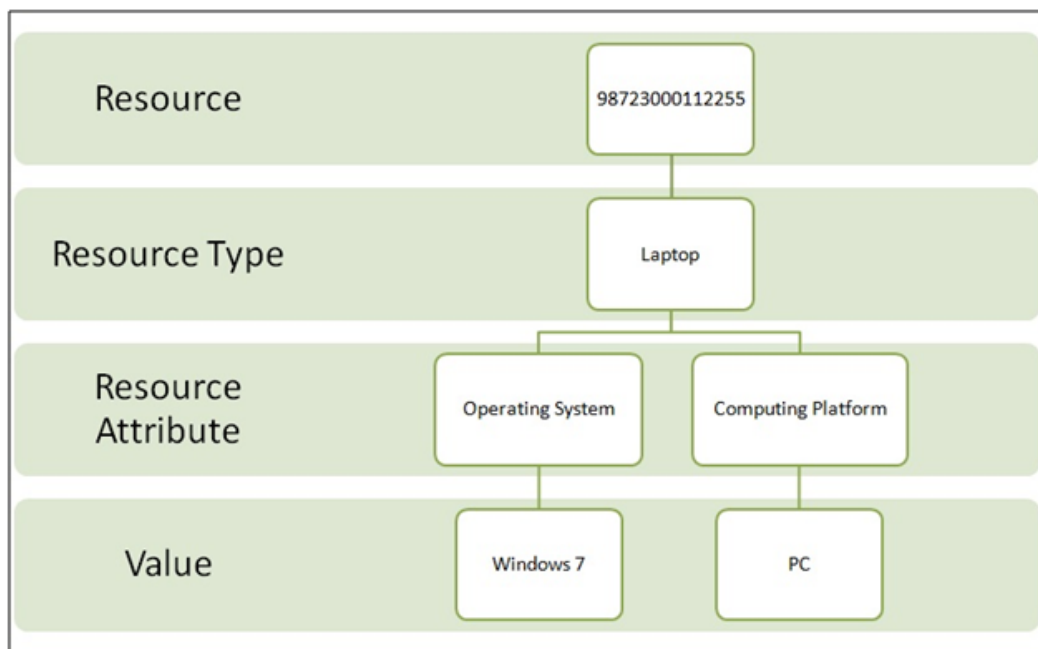
4) Click Save once you have entered the required information.



A resource may have multiple attributes and values. Repeat the above steps to map all.

5) The resource attribute map will appear in the list.

Once all attributes have been mapped your resource will be part of a hierarchy similar to the example below.



Editing Non-Bibliographic Resources

Staff with the required permissions can edit aspects of existing non-bibliographic resources. For example, resource type can be edited in the event that the fine amount for a laptop changes from \$2.00 to \$5.00.

Editing Resource Types

- 1) Bring up your list of resource types. Select Admin --> Server Administration --> Booking --> Resource Types.
- 2) A list of current resource types will appear.
- 3) Double click anywhere on the line of the resource type you would like to edit.

4) The resource type box will appear. Make your changes and click Save.

5) Following the same procedure you may edit Resource Attributes, Attributes Values, Resources and Attribute Map by selecting them on Admin --> Server Administration --> Booking menu.

Deleting Non-bibliographic Resources

1) To delete a booking resource, go to Admin → Server Administration → Booking → Resources.

2) Select the checkbox in front the resource you want to delete. Click Delete Selected. The resource will disappear from the list.

Following the same procedure you may delete Resource Attributes Maps.

You may also delete Resource Attribute Values, Resource Attributes and Resource Types. But you have to delete them in the reverse order when you create them to make sure the entry is not in use when you try to delete it.

This is the deletion order: Resource Attribute Map/Resources --> Resource Attribute Values --> Resource Attributes --> Resource Types.

Chapter 58. Call Number Prefixes and Suffixes

You can configure call number prefixes and suffixes in the Admin module. This feature ensures more precise cataloging because each cataloger will have access to an identical drop down menu of call number prefixes and suffixes that are used at his library. In addition, it may streamline cataloging workflow. Catalogers can use a drop down menu to enter call number prefixes and suffixes rather than entering them manually. You can also run reports on call number prefixes and suffixes that would facilitate collection development and maintenance.

Configure call number prefixes

Call number prefixes are codes that precede a call number.

To configure call number prefixes:

1. Select Admin → Server Administration → Call Number Prefixes.
2. Click New Prefix.
3. Enter the call number label that will appear on the item.
4. Select the owning library from the drop down menu. Staff at this library, and its descendant org units, with the appropriate permissions, will be able to apply this call number prefix.
5. Click Save.

Call Number Suffixes

Context Org Unit

[Back](#) [Next](#)

✓	Label	Owning Library
<input type="checkbox"/>	Copy 1	APEX

Label	<input type="text" value="Copy 2"/>
Owning Library	<input type="text" value="APEX"/>
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Configure call number suffixes

Call number suffixes are codes that succeed a call number.

To configure call number suffixes:

1. Select Admin → Server Administration → Call Number Suffixes.
2. Click New Suffix.
3. Enter the call number label that will appear on the item.
4. Select the owning library from the drop down menu. Staff at this library, and its descendant org units, with the appropriate permissions, will be able to apply this call number suffix.
5. Click Save.

Call Number Prefixes

Context Org Unit

[Back](#) [Next](#)

✓	Label	Owning Library
<input type="checkbox"/>	YA	CONS
<input type="checkbox"/>	E	CONS

Label	<input type="text" value="REF"/>
Owning Library	<input type="text" value="APEX"/>
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

Apply Call Number Prefixes and Suffixes

You can apply call number prefixes and suffixes to items from a pre-configured list in the Unified Volume/Copy Creator. See the document, [Unified Volume/Copy Creator](#), for an example.

Chapter 59. Cash Reports

Cash reports are useful for quickly getting information about money that your library has collected from patrons. This can be helpful in a few different scenarios, such as:

1. Reconciling a cash drawer at the end of the day.
2. Seeing how popular a specific payment type is (perhaps when evaluating a food-for-fines program).

To use the cash reports,

1. Under the Administration menu, choose Local Administration.
2. Click Cash reports.
3. Select the time period and library you are interested in. This interface defaults to showing payments accepted during the current day.
4. Click Submit.



You can click on the names of columns to sort the reports.



You need the VIEW_TRANSACTION permission to view these reports.



These payments are divided into two different types: Desk payments — in which a staff member simply accepted a credit card, check, or cash payment — and User payments — in which a staff member had to make a specific decision about whether to accept a payment of goods or work; or forgave or granted credit to a particular patron.

Chapter 60. Circulation Limit Sets

Maximum Checkout by Copy Location

This feature enables you to specify the maximum number of checkouts of items by copy location and is an addition to the circulation limit sets. Circulation limit sets refine circulation policies by limiting the number of items that users can check out. Circulation limit sets are linked by name to circulation policies.

To limit checkouts by copy location:

1. Click Admin → Local Administration → Circulation Limit Sets.
2. Click New to create a new circulation limit set.
3. In the Owning Library field, select the library that can create and edit this limit set.
4. Enter a Name for the circulation set. You will select the Name to link the circulation limit set to a circulation policy.
5. Enter the number of Items Out that a user can take from this copy location.
6. Enter the Min Depth, or the minimum depth in the org tree that Evergreen will consider as valid circulation libraries for counting items out. The min depth is based on org unit type depths. For example, if you want the items in all of the circulating libraries in your consortium to be eligible for restriction by this limit set when it is applied to a circulation policy, then enter a zero (0) in this field.
7. Check the box adjacent to Global Flag if you want all of the org units in your consortium to be restricted by this limit set when it is applied to a circulation policy. Otherwise, Evergreen will only apply the limit to the direct ancestors and descendants of the owning library.
8. Enter a brief Description of the circulation limit set.
9. Click Save.

Owning Library	AP
Name	A/V Materials
Items Out	5
Min Depth	0
Global	<input checked="" type="checkbox"/>
Description	Videos, DVDs, and CDs

Linked Circ Modifiers

Name	Remove
<input type="text"/>	Add

Linked Copy Locations

Name	Remove
A/V Materials	Add

Linked Limit Groups

Name	Check Only?	Remove
<input type="text"/>	<input type="checkbox"/>	Add

To link the circulation limit set to a circulation policy:

1. Click Admin → Local Administration → Circulation Policies
2. Select an existing circulation policy, or create a new one.
3. Scroll down to the Linked Limit Sets.
4. Select the Name of the limit set that you want to add to the circulation policy.
5. Click Add.
6. Click Save.

Circulate?	<input type="text" value="True"/>
Duration Rule	<input type="text" value="default"/>
Renewals Override	<input type="text"/>
Hard Due Date	<input type="text"/>
Recurring Fine Rule	<input type="text" value="default"/>
Grace Period Override	<input type="text"/>
Max Fine Rule	<input type="text" value="default"/>
Minimum Available Copy/Hold Ratio	<input type="text"/>
Minimum Total Copy/Hold Ratio	<input type="text"/>
Script Test	<input type="text"/>

Linked Limit Sets

Name	Fallthrough	Active	Remove
<input type="text" value="A/V Materials"/>			Add

Chapter 61. Copy Status

To navigate to the copy status editor from the staff client menu, select Admin → Server Administration → Copy Statuses.

The Copy Status Editor is used to add, edit and delete statuses of copies in your system.

For each status, you can set the following properties:

- Holdable - If checked, users can place holds on copies in this status, provided there are no other flags or rules preventing holds. If unchecked, users cannot place holds on copies in this status.
- OPAC Visible - If checked, copies in this status will be visible in the public catalog. If unchecked, copies in this status will not be visible in the public catalog, but they will be visible when using the catalog in the staff client.
- Sets copy active - If checked, moving a copy that does not yet have an active date to this status will set the active date. If the copy already has an active date, then no changes will be made to the active date. If unchecked, this status will never set the copy's active date.
- Is Available - If checked, copies with this status will appear in catalog searches where "limit to available" is selected as a search filter. Also, copies with this status will check out without status warnings. By default, the "Available" and "Reshelving" statuses have the "Is Available" flag set. The flag may be applied to local/custom statuses via the copy status admin interface.

Evergreen comes pre-loaded with a number of copy statuses.

Table 61.1. Stock copy statuses and default settings

ID	Name	Holdable	OPAC Visible	Sets copy active
0	Available	true	true	true
1	Checked out	true	true	true
2	Bindery	false	false	false
3	Lost	false	false	false
4	Missing	false	false	false
5	In process	true	true	false
6	In transit	true	true	false
7	Reshelving	true	true	true
8	On holds shelf	true	true	true
9	On order	true	true	false
10	ILL	false	false	true
11	Cataloging	false	false	false
12	Reserves	false	true	true
13	Discard/Weed	false	false	false

ID	Name	Holdable	OPAC Visible	Sets copy active
14	Damaged	false	false	false
15	On reservation shelf	false	false	true
16	Long Overdue	false	false	false
17	Lost and Paid	false	false	false

Adding Copy Statuses

1. In the New Status field, enter the name of the new status you wish to add.
2. Click Add.
3. Locate your new status and check the Holdable check box if you wish to allow users to place holds on items in this status. Check OPAC Visible if you wish for this status to appear in the public catalog. Check Sets copy active if you wish for this status to set the active date for new items.
4. Click Save Changes at the bottom of the screen to save changes to the new status.

Deleting Copy Statuses

1. Highlight the statuses you wish to delete. Ctrl-click to select more than one status.
2. Click Delete Selected.
3. Click OK to verify.



You will not be able to delete statuses if copies currently exist with that status.

Editing Copy Statuses

1. Double click on a status name to change its name. Enter the new name.
2. To change whether a status is holdable, visible in the OPAC, or sets the copy's active date, check or uncheck the relevant checkbox.
3. Once you have finished editing the statuses, remember to click Save Changes.

Chapter 62. Floating Groups

Before floating groups copies could float or not. If they floated then they floated everywhere, with no restrictions.

After floating groups where a copy will float is defined by what group it has been assigned to.

Floating Groups

Each floating group comes with a name and a manual flag, plus zero or more group members. The name is used solely for selection and display purposes.

The manual flag dictates whether or not the "Manual Floating Active" checkin modifier needs to be active for a copy to float. This allows for greater control over when items float. It also prevents automated checkins via SIP2 from triggering floats.

Floating Group Members

Each member of a floating group references an org unit and has a stop depth, an optional max depth, and an exclude flag.

Org Unit

The org unit and all descendants are included, unless max depth is set, in which case the tree is cut off at the max depth.

Stop Depth

The stop depth is the highest point from the current copy circ library to the checkin library for the item that will be traversed. If the item has to go higher than the stop depth on the tree the member rule in question is ignored.

Max Depth

As mentioned with the org unit, the max depth is the furthest down on the tree from the org unit that gets included. This is based on the entire tree, not just off of the org unit. So in the default tree a max depth of 1 will stop at the system level no matter if org unit is set to CONS or SYS1.

Exclude

Exclude, if set, causes floating to not happen for the member. Excludes always take priority, so you can remove an org unit from floating without having to worry about other rules overriding it.

Examples

Float Everywhere

This is a default floating rule to emulate the previous floating behavior for new installs and upgrades.

One member:

- Org Unit: CONS
- Stop Depth: 0
- Max Depth: Unset
- Exclude: Off

Float Within System

This would permit a copy to float anywhere within a system, but would return to the system if it was returned elsewhere.

One member:

- Org Unit: CONS
- Stop Depth: 1
- Max Depth: Unset
- Exclude: Off

Float To All Branches

This would permit a copy to float to any branch, but not to sublibraries or bookmobiles.

One member:

- Org Unit: CONS
- Stop Depth: 0
- Max Depth: 2
- Exclude: Off

Float To All Branches Within System

This would permit a copy to float to any branch in a system, but not to sublibraries or bookmobiles, and returning to the system if returned elsewhere.

One member:

- Org Unit: CONS
- Stop Depth: 1
- Max Depth: 2
- Exclude: Off

Float Between BR1 and BR3

This would permit a copy to float between BR1 and BR3 specifically, excluding sublibraries and bookmobiles.

It would consist of two members, identical other than the org unit:

- Org Unit: BR1 / BR3
- Stop Depth: 0
- Max Depth: 2
- Exclude: Off

Float Everywhere Except BM1

This would allow an item to float anywhere except for BM1. It accomplishes this with two members.

The first includes all org units, just like Float Everywhere:

- Org Unit: CONS
- Stop Depth: 0
- Max Depth: Unset
- Exclude: Off

The second excludes BM1:

- Org Unit: BM1
- Stop Depth: 0
- Max Depth: Unset
- Exclude: On

That works because excludes are applied first.

Float into, but not out of, BR2

This would allow an item to float into BR2, but once there it would never leave. Why you would want to allow items to float to but not from a single library I dunno, but here it is. This takes advantage of the fact that the rules say where we can float to, but outside of stop depth don't care where we are floating from.

One member:

- Org Unit: BR2
- Stop Depth: 0
- Max Depth: Unset
- Exclude: Off

Chapter 63. MARC Import Remove Fields

MARC Import Remove Fields allows staff to configure MARC tags to be automatically removed from bibliographic records when they are imported into Evergreen. This feature allows specific MARC tags to be removed from records that are imported through three different interfaces:

- Cataloging → Import Record from Z39.50
- Cataloging → MARC Batch Import/Export
- Acquisitions → Load MARC Order Records

Create a MARC Import Remove Fields profile

To create a MARC Import Remove Fields profile, go to Admin → Server Administration → MARC Import Remove Fields.

1. Click New Field Group.
2. Assign the Field Group a Label. This label will appear in the import interfaces.
3. Assign an Org Unit Owner.
4. Check the box next to Always Apply if you want Evergreen to apply this Remove Fields profile to all MARC records that are imported through the three affected interfaces. If you do not select Always Apply, staff will have the option to choose which Remove Fields profile to use when importing records.
5. Click Save.
6. The profile that you created will now appear in the list of MARC Import Remove Fields.
7. Click on the hyperlinked ID number. This will bring you into the Remove Fields profile to configure the MARC tags to be removed.
8. Click New Field.
9. In the Field, enter the MARC tag to be removed.
- 10 Click Save.
- 11 Add New Fields until you have configured all the tags needed for this profile.
- 12 Click Return to Groups to go back to the list of Remove Field profiles.

Go Back Reload Go Forward Debug Print Page

Import Bib Trash Fields

New Field Group Delete Selected

Filter

✓	#	ID	Short (Policy) Name	Label	Always Apply
<input type="checkbox"/>	1	1	APEX	Local	f
<input type="checkbox"/>	2	2	APEX	OCLC	f

Always Apply

Label

Owner ▼

Cancel Save

Import Options

The Label for each of the MARC Import Remove Fields profiles will appear on the three affected import screens. To select a profile, check the box next to the desired Label before importing the records.

Cataloging → Import Record from Z39.50

MARC Import via Z39.50

Query
Tip: Click a search field label and then the 'Save as Default' button to have that field focused by default.

Item Type: All Formats

Raw Search Clear Form Search

Service and Credentials

Service	Username	Password
<input type="checkbox"/> Local Catalog		
<input type="checkbox"/> Library of Congress		
<input type="checkbox"/> OCLC	<input type="text"/>	<input type="text"/>
<input type="checkbox"/> *biblios.net		

Save as Default

Results

Remove Fields on Import: Local OCLC No record marked for overlay.

Fetch More Results List Actions Mark Local Result as Overlay Target Show in Catalog MARC View MARC Editor Overlay

Import Hide Top Pane

#	Author	Edition	ISBN	Publication Date	Publisher	Service	TCN	Title

Cataloging → MARC Batch Import/Export

Export Records Import Records Inspect Queue Record Display Attributes Merge / Overlay Profiles
Record Match Sets Holdings Import Profiles

Evergreen MARC File Upload

Record Type:

Create a New Upload Queue: or Add to an Existing Queue:

Record Match Set:

Holdings Import Profile:

Select a Record Source:

Record Import Actions

Merge Profile:

Import Non-Matching Records:

Merge On Exact Match (901c):

Merge On Single Match:

Merge On Best Match:

Best/Single Match Minimum Quality Ratio: New Record Quality / Quality of Best Match

Insufficient Quality Fall-Through Profile:

Remove MARC Field Groups: Local (APEX) OCLC (APEX)

File to Upload:

Acquisitions → Load MARC Order Records

Upload

Create Purchase Order

Activate Purchase Order

Provider

Context Org Unit

Add to Selection List

Fiscal Year

Upload to Queue Or create a new queue

Record Match Set

Merge Profile

Import Non-Matching Records Record Source

Merge On Exact Match (901c)

Merge On Single Match

Merge On Best Match

Best/Single Match Minimum Quality Ratio New Record Quality / Quality of Best Match

Insufficient Quality Fall-Through Profile

Remove MARC Field Groups 970s (CONS)
 Subjects (CONS)

Load Items for Imported Records

File to Upload:

Permissions to use this Feature

The following permissions are required to use this feature:

- CREATE_IMPORT_TRASH_FIELD
- UPDATE_IMPORT_TRASH_FIELD
- DELETE_IMPORT_TRASH_FIELD

Chapter 64. MARC Record Attributes

The MARC Record Attribute Definitions support the ingesting, indexing, searching, filtering, and delivering of bibliographic record attributes.

To Access the MARC Record Attributes, click Admin → Server Administration → MARC Record Attributes

Multi Valued Fields and Composite Record Attributes

Multi Valued Fields and Composite Record Attributes expands upon the Record Attribute Definitions feature to include capturing all occurrences of multi-valued elements in a record. Multi Valued Fields allows users to say that a bibliographic record contains multiple entries for a particular record attribute. Composite Record Attributes supports the application of a more complicated and nested form of structure to a record attribute definition.

Multi Valued Fields

Multi Valued Fields allows for the capturing of multi-valued elements of a bibliographic record. Through the use of Multi Valued Fields, Evergreen recognizes that records are capable of storing multiple values. Multi Valued Fields are represented in the Record Attribute Definitions interface by a column named Multi-valued?. With Multi-valued? set to True, Evergreen will recognize the bibliographic records in the database that have multiple values mapping to the record attribute definition; it will also track and search on those values in the catalog. This feature will be particularly handy for bibliographic records representing a Blu-ray / DVD combo pack, since both format types can be displayed in the OPAC (if both formats were cataloged in the record).

Record Attribute Definitions New Attr. Definition Delete Selected

[Back](#) [Next](#) [Filter](#)

#	✓	Name	Label	Composite attribute?	Description	Filter?	Fixed Field	Format	Joiner	MARC Subfields	MARC Tag	Multi-valued?	Physical Characteristic	Sorter?	Starting Position	String Length	XPath	Coded Value Maps
<input type="checkbox"/>	1	icon_format	OPAC Format Icons	True		True						True		False				Manage
<input type="checkbox"/>	2	ills	Ills	False		True	Ills					True		False				Manage
<input type="checkbox"/>	3	indx	Indx	False		True	Indx					True		False				Manage
<input type="checkbox"/>	4	item_form	Form	False		True	Form					True		False				Manage
<input type="checkbox"/>	5	item_lang	Lang	False		True	Lang					True		False				Manage
<input type="checkbox"/>	6	item_type	Type	False		True	Type					False		False				Manage
<input type="checkbox"/>	7	language	Language (2.0 compat version)	False		True	Lang					True		False				Manage
<input type="checkbox"/>	8	lit_form	LitF	False		True	LitF					True		False				Manage
<input type="checkbox"/>	9	mr_hold_form	Metarecord Hold Formats	True		True						True		False				Manage
<input type="checkbox"/>	10	mrec	MRec	False		True	MRec					True		False				Manage
<input type="checkbox"/>	11	pub_status	DtSt	False		True	DtSt					True		False				Manage
<input type="checkbox"/>	12	pubdate	Pub Date	False		False	Date1					False		True				Manage
<input type="checkbox"/>	13	search_form	Search Form	True		True						True		False				Manage

To edit an existing record attribute definition and set the Multi-valued? field to True:

1. Click Admin on the menu bar
2. Hover over Server Administration and click MARC Record Attributes
3. Double-click on the row of the record attribute definition that needs to be edited
4. Select the Multi-valued? checkbox

5. Click Save

Record Attribute Definitions

Record Attribute Definitions

Back Next Filter

#	Name	Label	Composite attribute?	Description	Filter?	Fixed Field	Format	Joiner	MARC Subfields	MARC Tag	Multi-valued?	Physical Characteristic	Sorter?	Starting Position	String Length	XPath	Coded Value Maps
1	icon_format	OPAC Format Icons	True		True						True		False				Manage
2	ills	Ills	False		True	Ills					True		False				Manage
3	indx	Indx	False		True	Indx					True		False				Manage
4	item_form	Form	False		True	Form					True		False				Manage
5	item_lang	Lang	False		True	Lar					True		False				Manage
6	item_type	Type	False		True	Typ					False		False				Manage
7	language	Language (2.0 compat version)	False		True	Lar					True		False				Manage
8	lit_form	LitF	False		True	LitF					True		False				Manage
9	mr_hold_form	Metarecord Hold Formats	True		True						True		False				Manage
10	mrec	MRec	False		True	MR					True		False				Manage
11	pub_status	DtSt	False		True	DtSt					True		False				Manage
12	pubdate	Pub Date	False		False	Dat					False		True				Manage
13	search_formal	Search Formal	True		True						True		False				Manage

Multi-valued? Physical Characteristic Sorter? Starting Position String Length XPath

Cancel Save

Composite Record Attributes

Composite Record Attributes build on top of Evergreen's ability to support record attributes that contain multiple entries. The Composite Record Attributes feature enables administrators to take a record attribute definition and apply a more complicated and nested form of structure to that particular record attribute. Two new Record Attribute Definitions columns have been added to facilitate the management of the Composite Record Attributes. The Composite attribute? column designates whether or not a particular record attribute definition is also a composite record attribute. The Coded Value Maps column contains a Manage link in each row that allows users to manage the Coded Value Maps for the record attributes.

Record Attribute Definitions

Back Next Filter

#	Name	Label	Composite attribute?	Description	Filter?	Fixed Field	Format	Joiner	MARC Subfields	MARC Tag	Multi-valued?	Physical Characteristic	Sorter?	Starting Position	String Length	XPath	Coded Value Maps
1	icon_format	OPAC Format Icons	True		True						True		False				Manage
2	ills	Ills	False		True	Ills					True		False				Manage
3	indx	Indx	False		True	Indx					True		False				Manage
4	item_form	Form	False		True	Form					True		False				Manage

Coded Value Maps

To manage the Coded Value Maps of a particular record attribute definition, click the Manage link located under the Coded Value Maps column for that record attribute. This will open the Coded Value Maps interface. What administrators see on the Coded Value Maps screen does not define the structure of the composite record attribute; they must go into the Composite Attribute Entry Definitions screen to view this information.

Coded Value Maps

Coded Value Maps

Record Attribute Type: OPAC Format Icons

Back Next Filter

#	SVF Attribute	Code	Value	Description	OPAC Visible	Search Label	Is Simple Selector	Concept URI	Composite Definition
1	OPAC Format Icons	blu-ray	Blu-ray		True	Blu-ray	False		Manage
2	OPAC Format Icons	book	Book		True	Book	False		Manage
3	OPAC Format Icons	braille	Braille		True	Braille	False		Manage
4	OPAC Format Icons	casaudiobook	Cassette audiobook		True	Cassette audiobook	False		Manage
-	OPAC Format	.	Audiocassette		-	Audiocassette	-	..	

Within the Coded Value Maps screen, there is a column named Composite Definition. The Composite Definition column contains a Manage link that allows users to configure and to edit Composite Record Attribute definitions. In order to enable the Manage link (i.e. have the Manage link display as an option under the Composite Definition column), the Composite attribute? column (located back in the Record Attributes Definition page) must be set to True.

To edit an existing record attribute definition and set the Composite attribute? field to True:

1. Click Admin on the menu bar
2. Hover over Server Administration and click MARC Record Attributes
3. Double-click on the row of the record attribute definition that needs to be edited
4. Select the Composite attribute? checkbox
5. Click Save

The screenshot shows the 'Record Attribute Definitions' interface. A modal dialog is open for editing the 'icon_format' record attribute definition. The dialog has the following fields and values:

- Name: icon_format
- Label: OPAC Format Icons
- Composite attribute?: (highlighted with a red box)
- Description:
- Filter?:
- Fixed Field:
- Format:
- Joiner:
- MARC Subfields:
- MARC Tag:
- Multi-valued?:
- Physical Characteristic:
- Sorter?:
- Starting Position:
- String Length:
- XPath:

Buttons for 'Cancel' and 'Save' are at the bottom of the dialog. In the background, a table lists various record attribute definitions with columns for Name, Label, Composite attribute?, Description, Filter?, and Fixed Field.

Now that the Composite attribute? value is set to True, click on the Manage link located under the Coded Value Maps column for the edited record attribute definition. Back in the Coded Value Maps screen, a Manage link should now be exposed under the Composite Definition column. Clicking on a specific coded value's Manage link will take the user into the Composite Attribute Entry Definitions screen for that specified coded value.

Composite Attribute Entry Definitions

The Composite Attribute Entry Definitions screen is where administrators can locally define and edit Composite Record Attributes for specific coded values. For example: administrators can further refine and distinguish the way a “book” should be defined within their database, by bringing together the right combination of attributes together to truly define what a “book” is in their database.

The top of the Composite Attribute Entry Definitions screen shows a parenthetically defined view of the Composite Data Expression. Below the Composite Data Expression is the Composite Data Tree. The Composite Data Tree is structured off of Boolean Operators, including the support of NOT operations. This nested form can be as deeply defined as it needs to be within the site's database.

Composite Attribute Entry Definitions

Record Attribute: OPAC Format Icons
Coded Value: book / Book

[Return To Coded Value Maps](#)

Composite Data Expression

(Language material OR Manuscript language material) AND NOT (Microfilm OR Microfiche OR Micropaque OR Large print OR Braille OR Online OR Direct electronic OR Regular print reproduction OR Electronic) AND (Monographic component part OR Collection OR Subunit OR MonographItem)

Composite Data Tree [New Tree](#) [Delete Tree](#) [Save Changes](#)

AND	Delete	Add Child
- OR	Delete	Add Child
- - Type (item_type) => Language material (a)	Delete	
- - Type (item_type) => Manuscript language material (l)	Delete	
- NOT	Delete	Add Child
- - OR	Delete	Add Child
- - - Form (item_form) => Microfilm (a)	Delete	
- - - Form (item_form) => Microfiche (b)	Delete	
- - - Form (item_form) => Micropaque (c)	Delete	

To modify the Composite Attribute Entry Definition, any Boolean Operator can be deleted or have a coded value appended to it. The appended coded value can be any number of Coded Value Maps from any other Record Attribute Definition. So, administrators can choose from all the other existing record attribute definitions and create new nested structures to define entirely new data types.

To modify the Composite Attribute Entry Definition:

1. Click Add Child for the specific Boolean Operator that needs to be modified, and a new window will open
2. Select which Record Attribute needs to be represented in the structure under that particular Boolean Operator
3. Select the Attribute Type from the dropdown options
4. Select the Value of the Attribute Type from the dropdown options (dropdown options will be based on the Attribute Type selected)
5. Click Submit
6. The Composite Data Expression should now include the modification
7. Once all modifications have been made, click Save Changes on the Composite Attribute Entry Definitions page

Record Attribute: OPAC Format Icons
Coded Value: book / Book

[Return To Coded Value Maps](#)

Composite Data Expression

(Language material OR Manuscript language material) AND NOT (Microfilm OR Microfiche OR Micropaque OR Large print OR Braille OR Online OR Direct electronic OR Regular print reproduction OR Electronic) AND (Monographic component part OR Collection OR Subunit OR MonographItem)

Composite Data Tree [New Tree](#) [Delete Tree](#) [Save Changes](#)

AND	Delete	Add Child
- OR	Delete	Add Child
- - Type (item_type) => Language material (a)	Delete	
- - Type (item_type) => Manuscript language material (l)	Delete	
- NOT	Delete	Add Child

Boolean: AND
 Boolean: OR
 Boolean: NOT

Record Attribute

Select Attribute Type:

Select Value:











Search and Icon Formats















Search and Icon Formats

The table below shows all the search and icon formats. In some cases they vary slightly, with the icon format being more restrictive. This is so that things such as a search for "All Books" will include Large Print books yet Large Print books will not show both a "Book" and "Large Print Book" icon.

In the table below "Icon Format Only" portions of the definition are italicized and in square brackets: [Icon format only data]

The definitions use the [fixed field types](#) at the end of this document.

Icon	Search Label/Icon Label	Definition
	Blu-ray	VR Format:s
	All books/Book	Item Type: a,t Bib Level: a,c,d,m NOT: Item Form: a,b,c,f,o,q,r,s [,d]
	Braille	Item Type: a Item Form: f
	Cassette audiobook	Item Type: i SR Format: l
	Audiocassette music recording	Item Type: j SR Format: l
	CD audiobook	Item Type: i SR Format: f
	CD music recording	Item Type: j SR Format: f
	DVD	VR Format: v
	E-audio	Item Type: i Item Form: o,q,s
	E-book	Item Type: a,t Bib Level: a,c,d,m Item Form: o,q,s

	Equipment, games, toys	Item Type: r
	E-video	Item Type: g Item Form: o,q,s
	Kit	Item Type: o,p
	Large print book	Item Type: a,t Bib Level: a,c,d,m Item Form: d
	Map	Item Type: e,f
	Microform	Item Form: a,b,c
	All music/Music sound recording (unknown format)	Item Type: j [NOT: SR Format: a,b,c,d,e,f,l]
	Phonograph music recording	Item Type: j SR Format: a,b,c,d,e
	Phonograph spoken recording	Item Type: i SR Format: a,b,c,d,e
	Picture	Item type: k
	Music score	Item type: c,d
	Serials and magazines	Bib Level: b,s
	Software and video games	Item Type: m
	VHS	VR Format: b

Record Types

This table shows the record types currently used in determining elements of search and icon formats. They are based on a combination of the MARC Record Type (LDR 06) and Bibliographic Level (LDR 07) fixed fields.

Record Type	LDR 06	LDR 07
BKS	a,t	a,c,d,m
MAP	e,f	a,b,c,d,i,m,s

MIX	p	c,d,i
REC	i,j	a,b,c,d,i,m,s
SCO	c,d	a,b,c,d,i,m,s
SER	a	b,i,s
VIS	g,k,r,o	a,b,c,d,i,m,s

Fixed Field Types

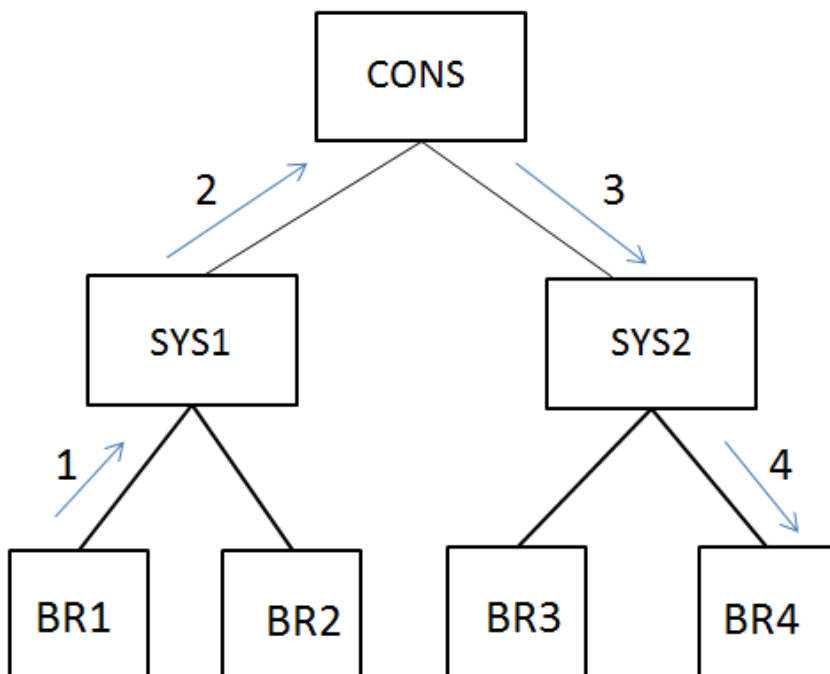
This table details the fixed field types currently used for determining search and icon formats. See the [record types](#) section above for how the system determines them.

Label	Record Type	Tag	Position
Item Type	ANY	LDR	06
Bib Level	ANY	LDR	07
Item Format	BKS	006	06
		008	23
	MAP	006	12
		008	29
	MIX	006	06
		008	23
	REC	006	06
		008	23
	SCO	006	06
		008	23
	SER	006	06
		008	23
	VIS	006	12
		008	29
SR Format	ANY	007s	03
VR Format	ANY	007v	04

Chapter 65. Org Unit Proximity Adjustments

Org Unit Proximity Adjustments

Org Unit Proximity Adjustments allow libraries to indicate lending preferences for holds between libraries in an Evergreen consortium. When a hold is placed in Evergreen, the hold targeter looks for copies that can fill the hold. One factor that the hold targeter uses to choose the best copy to fill the hold is the distance, or proximity, between the capturing library and the pickup library for the request. The proximity is based on the number of steps through the org tree that it takes to get from one org unit to another.



Org Unit Proximity between BR1 and BR4 = 4

Org Unit Proximity Adjustments allow libraries to customize the distances between org units, which provides more control over which libraries are looked at when targeting copies to fill a hold. Evergreen can also be configured to take Org Unit Proximity Adjustments into account during opportunistic capture through the creation of a custom Best-Hold Selection Sort Order. See documentation [<here>](#) for more information on Best-Hold Selection Sort Order.

An Org Unit Proximity Adjustment can be created to tell Evergreen which libraries to look at first for copies to fill a hold or which library to look at last. This may be useful for accounting for true transit costs or physical distances between libraries. It can also be used to identify libraries that have special lending agreements or preferences. Org Unit Proximity Adjustments can be created

for all holds between two org units, or they can be created for holds on specific Copy Locations and Circulation Modifiers.

Absolute and Relative Adjustments

Two types of proximity adjustments can be created in Evergreen: Absolute adjustments and Relative adjustments.

Absolute proximity adjustments allow you to replace the default proximity distance between two org units. An absolute adjustment could be made to tell the hold targeter to look at a specific library or library system first to find an item to fill a hold, before looking elsewhere in the consortium.

Relative proximity adjustments allows the proximity between org units to be treated as closer or farther from one another than the default distance. A relative proximity adjustment could be used to identify a library that has limited hours or slow transit times to tell the hold targeter to look at that library last for copies to fill a hold.

Create an Org Unit Proximity Adjustment

To create an Org Unit Proximity Adjustment between two libraries:

1. In the Admin menu choose Server Administration → Org Unit Proximity Adjustments.
2. Click New OU Proximity Adjustment.
3. Choose an Item Circ Lib from the drop down menu.
4. Choose a Hold Request Lib from the drop down menu.
5. If this proximity adjustment applies to a specific copy location, select the appropriate Copy Location from the drop down menu.
6. If this proximity adjustment applies to a specific material type, select the appropriate Circ Modifier from the drop down menu.
7. If this is an Absolute proximity adjustment, check the box next to Absolute adjustment? If you leave the box blank, a relative proximity adjustment will be applied.
8. Enter the Proximity Adjustment between the Item Circulating Library and the Request Library.
9. Click Save.

Org Unit Proximity Adjustments New OU Proximity Adjustment Delete Selected

Show adjustments involving this branch or deeper:

[Back](#) [Next](#)

✓	#	Item Circ Lib	Item Owning Lib	Hold Pickup Lib	Hold	Copy	Circ Modifier	Position	Absolute adjustment?	Proximity Adjustment
									<input checked="" type="checkbox"/>	2

Item Circ Lib:

Item Owning Lib:

Hold Pickup Lib:

Hold Request Lib:

Copy Location:

Circ Modifier:

Position:

Absolute adjustment?

Proximity Adjustment:

This will create a one-way proximity adjustment between Org Units. In this example this adjustment will apply to items requested at by a patron BR4 and filled at BR1. To create the reciprocal proximity adjustment, for items requested at BR1 and filled at BR4, create a second proximity adjustment between the two Org Units.

Permissions to use this Feature

To create Org Unit Proximity Adjustments, you will need the following permission:

- ADMIN_PROXIMITY_ADJUSTMENT

Chapter 66. User and Group Permissions

It is essential to understand how user and group permissions can be used to allow staff to fulfill their roles while ensuring that they only have access to the appropriate level.

Permissions in Evergreen are applied to a specific location and system depth based on the home library of the user. The user will only have that permission within the scope provided by the Depth field in relation to his/her working locations.

Evergreen provides group application permissions in order to restrict which staff members have the ability to assign elevated permissions to a user, and which staff members have the ability to edit users in particular groups.

Staff Accounts

New staff accounts are created in much the same way as patron accounts, using Circulation → Register Patron or Shift+F1. Select one of the staff profiles from the Profile Group drop-down menu.

Each new staff account must be assigned a Working Location which determines its access level in staff client interfaces.

1. To assign a working location open the newly created staff account using F1 (retrieve patron) or F4 (patron search).
2. Select Other → User Permission Editor
3. Place a check in the box next to the desired working location, then scroll to the bottom of the display and click Save.



In multi-branch libraries it is possible to assign more than one working location

Staff Account Permissions

To view a detailed list of permissions for a particular Evergreen account go to Admin (-) → User permission editor in the staff client.

Granting Additional Permissions

A Local System Administrator (LSA) may selectively grant LSA permissions to other staff accounts. In the example below a Circ +Full Cat account is granted permission to process offline transactions, a function which otherwise requires an LSA login.

1. Log in as a Local System Administrator.

2. Select Admin (-) → User Permission Editor and enter the staff account barcode when prompted

OR

Retrieve the staff account first, then select Other → User Permission Editor

3. The User Permission Editor will load (this may take a few seconds). Greyed-out permissions cannot be edited because they are either a) already granted to the account, or b) not available to any staff account, including LSAs.

①	Permission	Applied	Depth	Grantable
	ABORT_REMOTE_TRANSIT	② <input type="checkbox"/>	③ Library	<input type="checkbox"/> ④
	ABORT_TRANSIT	<input checked="" type="checkbox"/>	Library	<input checked="" type="checkbox"/>
	ADMIN_ACQ_FUND	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_CIRC_MATRIX_MATCHPOINT	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_CIRC_MOD	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_CURRENCY_TYPE	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_FUND	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_FUNDING_SOURCE	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_GROUP_PENALTY_THRESHOLD	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_HOLD_MATRIX_MATCHPOINT	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_MARC_CODE	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_PROVIDER	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_STANDING_PENALTY	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_SURVEY	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_TRIGGER_CLEANUP	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_TRIGGER_EVENT_DEF	<input type="checkbox"/>	Library	<input type="checkbox"/>
	ADMIN_TRIGGER_HOOK	<input type="checkbox"/>	Library	<input type="checkbox"/>

1) List of permission names.

2) If checked the permission is granted to this account.

3) Depth limits application to the staff member's library and should be left at the default.

4) If checked this staff account will be able to grant the new privilege to other accounts (not recommended).

4. To allow processing of offline transactions check the Applied column next to OFFLINE_EXECUTE.

MARK_ITEM_ON_HOLDS_SHELF	<input type="checkbox"/>	Library	<input type="checkbox"/>
MARK_ITEM_ON_ORDER	<input type="checkbox"/>	Library	<input type="checkbox"/>
MARK_ITEM_RESHELVING	<input type="checkbox"/>	Library	<input type="checkbox"/>
MAX_RENEWALS_REACHED.override	<input checked="" type="checkbox"/>	Consortium	<input checked="" type="checkbox"/>
MERGE_BIB_RECORDS	<input checked="" type="checkbox"/>	Consortium	<input checked="" type="checkbox"/>
MERGE_USERS	<input type="checkbox"/>	Library	<input type="checkbox"/>
MR_HOLDS	<input checked="" type="checkbox"/>	Consortium	<input checked="" type="checkbox"/>
OFFLINE_EXECUTE	<input checked="" type="checkbox"/>	Library	<input type="checkbox"/>
OFFLINE_UPLOAD	<input checked="" type="checkbox"/>	Library	<input checked="" type="checkbox"/>
OFFLINE_VIEW	<input checked="" type="checkbox"/>	Library	<input checked="" type="checkbox"/>
OPAC_LOGIN	<input type="checkbox"/>	Consortium	<input type="checkbox"/>

5. Scroll down and click Save to apply the changes.

group_application.user.vendor	<input type="checkbox"/>	Library	<input type="checkbox"/>
money.collections_tracker.create	<input type="checkbox"/>	Library	<input type="checkbox"/>
money.collections_tracker.delete	<input type="checkbox"/>	Library	<input type="checkbox"/>

Save

Chapter 67. SMS Text Messaging

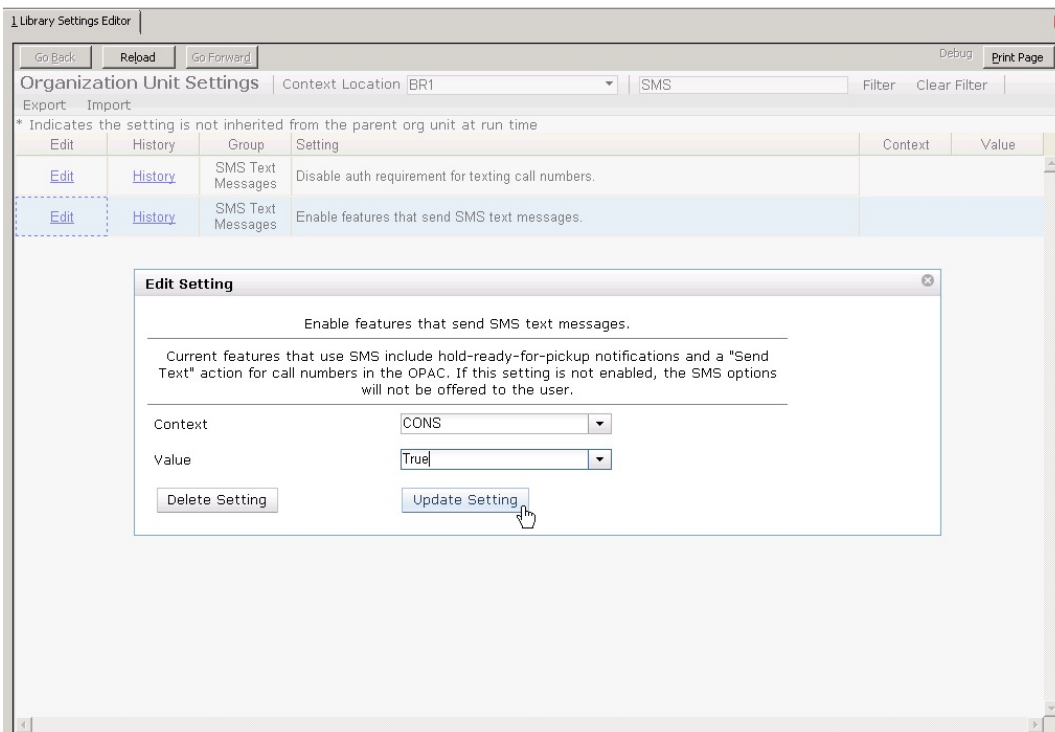
The SMS Text Messaging feature enables users to receive hold notices via text message. Users can opt-in to this hold notification as their default setting for all holds, or they can receive specific hold notifications via text message. Users can also send call numbers and copy locations via text message.

Administrative Setup

You cannot receive text messages from Evergreen by default. You must enable this feature to receive hold notices and copy information from Evergreen via text message.

Enable Text Messages

1. Click Admin → Local Admin → Library Settings Editor.
2. Select the setting, Enable features that send SMS text messages.
3. Set the value to True, and click Update Setting.

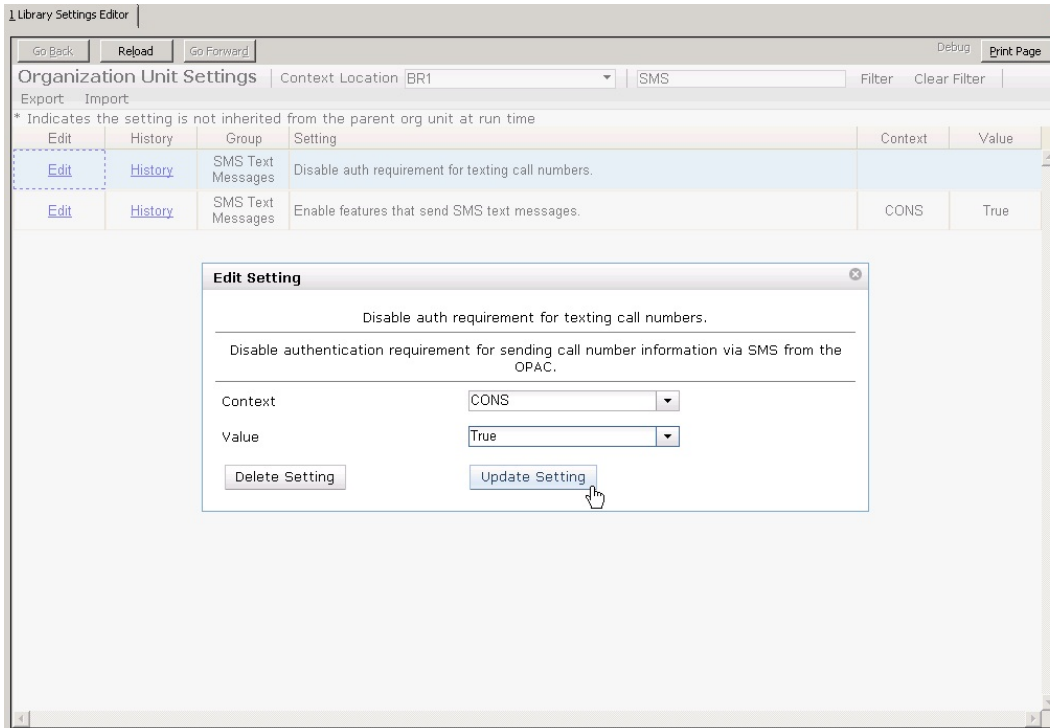


Authenticate Patrons

By default, you must be logged into your OPAC account to send a text message from Evergreen. However, if you disable this setting, you can text message copy information without having to login to your OPAC account.

To disable the patron login requirement:

1. Click Admin → Local Administration → Library Settings Editor.
2. Select the setting, Disable auth requirement for texting call numbers.
3. Set the value to True, and click Update Setting.



Configure SMS Carriers

A list of SMS carriers that can transmit text messages to users is available in the staff client. Library staff can edit this list, or add new carriers.

To add or edit SMS carriers:

1. Click Admin → Server Administration → SMS Carriers.
2. To add a new carrier, click the New Carrier button in the top right corner of the screen. To edit an existing carrier, double click in any white space in the carrier's row.

SMS Carriers					New Carrier
Region	Name	Email Gateway	Active		
<input checked="" type="checkbox"/>	USA	AT&T Enterprise Paging	\$number@page.att.net	True	
<input type="checkbox"/>	USA	AT&T Global Smart Messaging Suite	\$number@sms.smartmessagingsuite.com	True	
<input type="checkbox"/>	USA	AT&T Mobility/Wireless	\$number@txt.att.net	True	
<input type="checkbox"/>	USA	Alaska Communications	\$number@msg.acsalaska.com	True	
<input type="checkbox"/>	Canada	Aliant	\$number@sms.wirefree.informe.ca	True	
<input type="checkbox"/>	USA	Alltel (Allied Wireless)	\$number@sms.alltelwireless.com	True	
<input type="checkbox"/>	USA	Ameritech	\$number@paging.acswireless.com	True	
<input type="checkbox"/>	Canada	Bell Mobility & Solo Mobile	\$number@txt.bell.ca	True	
<input type="checkbox"/>	Canada	Bell Mobility & Solo Mobile (Alternate)	\$number@txt.bellmobility.ca	True	
<input type="checkbox"/>	USA	BellSouth	\$number@bellsouth.com	True	

3. Enter a (geographical) Region.
4. Enter the carrier's Name.
5. Enter an Email Gateway. The SMS carrier can provide you with the content for this field. The \$number field is converted to the user's phone number when the text message is generated.
6. Check the Active box to use this SMS Carrier.

SMS Carriers

[Back](#) [Next](#)

Region	Name	Email Gateway	Active
<input type="checkbox"/> USA	AT&T Enterprise Paging	\$number@page.att.net	True
<input type="checkbox"/> USA	AT&T Global Smart Messaging Suite	\$number@sms.smartmessagingsuite.com	True
<input type="checkbox"/> USA	AT&T Mobility/Wireless		True
<input type="checkbox"/> USA	Alaska Communications		True
<input type="checkbox"/> Canada	Aliant		True
<input type="checkbox"/> USA	Alltel (Allied Wireless)		True
<input type="checkbox"/> USA	Ameritech		True
<input type="checkbox"/> Canada	Bell Mobility & Solo Mobile		True
<input type="checkbox"/> Canada	Bell Mobility & Solo Mobile (Alternat		True
<input type="checkbox"/> USA	BellSouth		True
<input type="checkbox"/> USA	Bluegrass Cellular		True
<input type="checkbox"/> USA	Boost Mobile		True

ID: 35

Region: USA

Name: Alltel (Allied Wireless)

Email Gateway: \$number@sms.alltelwireless.com

Active:

Configure Text Message Templates

Library staff control the content and format of text messages through the templates in Notifications/Action Triggers. Patrons cannot add free text to their text messages.

To configure the text of the SMS text message:

1. Click Admin → Local Administration → Notifications/Action Triggers.
2. Create a new A/T and template, or use or modify an existing template. For example, a default template, "Hold Ready for Pickup SMS Notification," notifies users that the hold is ready for pickup.

Trigger Event Definitions											New	Clone Selected	Delete Selected
✓	Owning Library	Name	Hook	Enabled	Processing Delay	Processing Delay Context Field	Processing Group Context Field	Reactor	Validator	Granularity			
<input type="checkbox"/>	CONS	Items from Queued Bib Records	vandelay.imp	True	00:05:00		record.queue	ProcessTemp	NOOP_True	on-demand			
<input type="checkbox"/>	CONS	CSV Output for Queued Authority Records	vandelay.queu	True	00:05:00		queue.owner	ProcessTemp	NOOP_True	print-on-demand			
<input type="checkbox"/>	CONS	CSV Output for Queued Bib Records	vandelay.queu	True	00:05:00		queue.owner	ProcessTemp	NOOP_True	print-on-demand			
<input type="checkbox"/>	CONS	Email Notice	aur.created	False	00:05:00			SendEmail	NOOP_True				
<input type="checkbox"/>	CONS	Email Notice	aur.rejected	False	00:05:00			SendEmail	NOOP_True				
<input type="checkbox"/>	CONS	Email Notice	aur.cancelled	False	00:05:00			SendEmail	Acq UserReq				
<input type="checkbox"/>	CONS	Email Notice	aur.ordered	False	00:05:00			SendEmail	Acq UserReq				
<input type="checkbox"/>	CONS	Email Notice	aur.received	False	00:05:00			SendEmail	Acq UserReq				
<input type="checkbox"/>	CONS	Email Output for Import Items from Queued Bib Records	vandelay.imp	True	00:05:00		record.queue	SendEmail	NOOP_True				
<input type="checkbox"/>	CONS	Email Output for Queued Authority Records	vandelay.queu	True	00:05:00		queue.owner	SendEmail	NOOP_True				
<input type="checkbox"/>	CONS	Email Output for Queued Bib Records	vandelay.queu	True	00:05:00		queue.owner	SendEmail	NOOP_True				
<input type="checkbox"/>	CONS	Hold Cancelled (No Target) Email Notification	hold_request.c	False	00:30:00	cancel_time	usr	SendEmail	HoldIsCancelle				
<input type="checkbox"/>	CONS	Hold Expires from Shelf Sign	hold_request.c	False	-1 days	shelf_expire_ti	usr	SendEmail	HoldIsAvailabl				
<input type="checkbox"/>	CONS	Hold Ready for Pickup Email Notification	hold.available	False	00:30:00	shelf_time	usr	SendEmail	HoldIsAvailabl				
<input type="checkbox"/>	CONS	Hold Ready for Pickup SMS Notification	hold.available	True	00:30:00	shelf_time	sms_notify	SendSMS	HoldIsAvailabl				

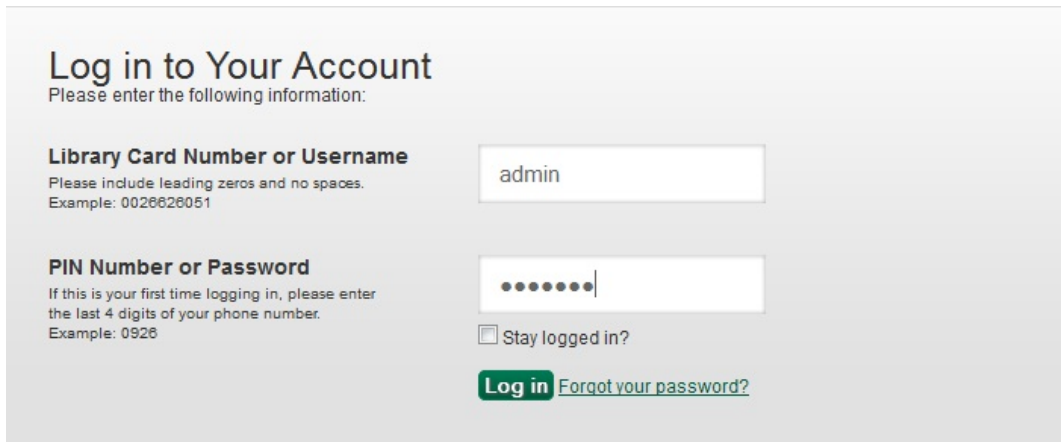
3. You can use the default template, or you can edit the template and add content specific to your library. Click the hyperlinked name to view and/or edit the hold notice.

Trigger Event Definitions		New	Clone Selected
Failure Cleanup	<input type="text"/>		
Granularity	<input type="text"/>		
Max Event Validity Delay	<input type="text"/>		
Opt-In Setting Type	<input type="text"/>		
Opt-In User Field	<input type="text"/>		
Success Cleanup	<input type="text"/>		
Template	<pre> [%- USE date -%] [%- user = target.O.USER -%] From: [%- params.sender_email default_sender %] To: [%- params.recipient_email helpers.get_sms_gateway_email(target.O.sms_carrier,target.O.sms_notify) %] Subject: Hold Available Notification Dear [% user.family_name %], [% user.first_given_name %] The item(s) you requested are available for pickup from the Library. [% FOR hold IN target %] Title: [% hold.current_copy.call_number.record.simple_record.title %] Author: [% hold.current_copy.call_number.record.simple_record.author %] [%] Call Number: [% hold.current_copy.call_number.label %] Barcode: [% hold.current_copy.barcode %] Library: [% hold.pickup_lib.name %] [% END %] </pre>		

Receiving Holds Notices via Text Message

You can receive notification that your hold is ready for pickup from a text message that is sent to your mobile phone.

1. Login to your account.



Log in to Your Account
Please enter the following information:

Library Card Number or Username
Please include leading zeros and no spaces.
Example: 0020020051

PIN Number or Password
If this is your first time logging in, please enter the last 4 digits of your phone number.
Example: 0928

Stay logged in?

Log in [Forgot your password?](#)

2. Search the catalog.

3. Retrieve a record, and click the Place Hold link.

4. Select the option to retrieve hold notification via text message.

5. Choose an SMS Carrier from the drop down menu. NOTE: You can enter your SMS carrier and phone number into your Account Preferences to skip steps five and six.

6. Enter a phone number.

7. Click Submit.

Place Hold

Complete transcriptions, cadenzas, and exercises, for solo piano / Johannes Brahms ; edited by Eusebius Mandyczewski.

Pickup location:

Notify when hold is ready for pickup?

- Yes, by Email
 Yes, by Phone

Phone Number:

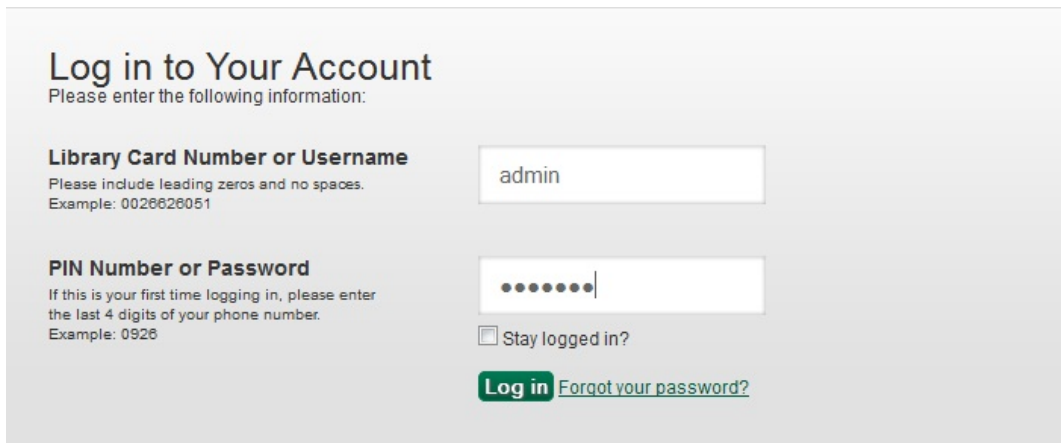
- Yes, by Text Messaging

Mobile carrier: Note: carrier charges may apply
Mobile number: Hint: use the full 10 digits of your phone #, no spaces, no dashes

Sending Copy Details via Text Message

You can search the catalog for an item, and, after retrieving results for the item, click a hyperlink to send the copy information in a text message.

1. Login to your account in the OPAC. NOTE: If you have disabled the setting that requires patron login, then you do not have to login to their accounts to send text messages. See [Administrative Setup](#) for more information.



Log in to Your Account
Please enter the following information:

Library Card Number or Username
Please include leading zeros and no spaces.
Example: 0026626051

PIN Number or Password
If this is your first time logging in, please enter the last 4 digits of your phone number.
Example: 0926

Stay logged in?

Log in [Forgot your password?](#)

2. Search the catalog, and retrieve a title with copies.
3. Click the Text link next to the call number.

Available copies

- 26 copies at Example Consortium.

Current holds

- 1 current hold with 31 total copies.

Location	Call Number / Copy Notes	Barcode
Example Branch 1	780 B92 (Text)	CONC40000628
Example Branch 1	780 B92 (Text)	CONC41000628
Example Branch 1	ML 2533 B34 C92 (Text)	CONC40000128
Example Branch 1	ML 2533 B34 C92 (Text)	CONC41000128
Example Branch 1	ML 2533 B34 C92 (Text)	CONC42000128
Example Branch 1	ML 2533 B34 C92 (Text)	CONC43000128

4. The text of the SMS Text Message appears.

Text call number

[Return to record](#)

```
From: evergreen@localhost
To:
Subject: Call Number

Call Number: 780 B92
Location: Stacks
Library: Example Branch 1
Title: Violin concerto
Author: Penderecki, Krzysztof,
```

Mobile carrier:

Mobile number: Hint: use the full 10 digits of your phone #, no spaces, no dashes

Note: carrier charges may apply

5. Choose an SMS Carrier from the drop down menu. NOTE: You can enter your SMS carrier and phone number into your Account Preferences to skip steps five and six.
6. Enter a phone number.
7. Click Submit. NOTE: Message and data rates may apply.
8. The number and carrier are converted to an email address, and the text message is sent to your mobile phone. The following confirmation message will appear.

Your message has been sent!

[Return to record](#)

```
From: evergreen@localhost
To: 3525555555@msg.acsalaska.com
Subject: Call Number

Call Number: 780 B92
Location: Stacks
Library: Example Branch 1
Title: Violin concerto
Author: Penderecki, Krzysztof,
```

Permissions to use this Feature

ADMIN_SMS_CARRIER - Enables users to add/create/delete SMS Carrier entries.

Chapter 68. User Activity Types

The User Activity Types feature enables you to specify the user activity that you want to record in the database. You can use this feature for reporting purposes. This function will also display a last activity date in a user's account.

Enabling this Feature

Click Admin → Server Administration → User Activity Types to access the default set of user activity types and to add new ones. The default set of user activity types records user logins to the Evergreen ILS and to third party products that communicate with Evergreen.

The Label is a free text field that enables you to describe the activity that you are tracking.

The Event Caller describes the third party software or Evergreen interface that interacts with the Evergreen database and is responsible for managing the communication between the parties.

The Event Type describes the type of activity that Evergreen is tracking. Currently, this feature only tracks user authentication.

The Event Mechanism describes the framework for communication between the third party software or OPAC and the database. Enter an event mechanism if you want to track the means by which the software communicates with the database. If you do not want to track how the softwares communicate, then leave this field empty.

The Enabled field allows you to specify which types of user activity that you would like to track.

The Transient column enables you to decide how many actions you want to track. If you want to track only the last activity, then enter True. If you want to trace all activity by the user, enter False.

User Activity Type							New Activity Type	
Back	Next	Label	Event Caller	Event Type	Event Mechanism	Activity Group	Enabled	Transient
<input type="checkbox"/>		Apache Auth Proxy Login	authproxy	login	apache	authen	True	False
<input type="checkbox"/>		EZProxy Verification	ezproxy	verify	remoteauth	authz	True	False
<input type="checkbox"/>		LibraryElf Login	libraryelf	login	xmlrpc	authz	True	False
<input type="checkbox"/>		Login via Apache module		login	apache	authen	True	False
<input type="checkbox"/>		Login via gateway-v1		login	gateway-v1	authen	True	False
<input type="checkbox"/>		Login via opensrf		login	opensrf	authen	True	False
<input type="checkbox"/>		Login via remoteauth		login	remoteauth	authen	True	False
<input type="checkbox"/>		Login via srfsh		login	srfsh	authen	True	False
<input type="checkbox"/>		Login via translator-v1		login	translator-v1	authen	True	False
<input type="checkbox"/>		Login via xmlrpc		login	xmlrpc	authen	True	False
<input type="checkbox"/>		OPAC Login (jspac)	opac	login	gateway-v1	authen	True	False
<input type="checkbox"/>		OPAC Login (tpac)	opac	login	apache	authen	True	False
<input type="checkbox"/>		SIP2 Proxy Login		login	sip2	authen	True	False
<input type="checkbox"/>		SIP2 User Verification		verify	sip2	authz	True	False
<input type="checkbox"/>		Self-Check Proxy Login	selfcheck	login	translator-v1	authen	True	False

Using this Feature

The last activity date for user logins appears in the patron's summary.



Profile	Patrons
Home Library	BR1
Net Access	Filtered
Date of Birth	
Last Activity	3/9/2016
Last Updated	2/14/2018
Create Date	3/9/2016
Expire Date	2/14/2021
Fines Owed	\$0.00
Items Out	0
Overdue	0
Long Overdue	0
Claimed Returned	0
Lost	0
Non-Cataloged	0
Holds	0 / 2
Card	543254325
Username	333433334
Day Phone	
Evening Phone	
Other Phone	
ID1	Drivers License
ID2	
Email	

Chapter 69. Z39.50 Servers

Restrict Z39.50 Sources by Permission Group

In Evergreen versions preceding 2.2, all users with cataloging privileges could view all of the Z39.50 servers that were available for use in the staff client. In Evergreen version 2.2, you can use a permission to restrict users' access to Z39.50 servers. You can apply a permission to the Z39.50 servers to restrict access to that server, and then assign that permission to users or groups so that they can access the restricted servers.

Administrative Settings

You can add a permission to limit use of Z39.50 servers, or you can use an existing permission.



You must be authorized to add permission types at the database level to add a new permission.

Add a new permission:

- 1) Create a permission at the database level.
- 2) Click Admin → Server Administration → Permissions to add a permission to the staff client.
- 3) In the New Permission field, enter the text that describes the new permission.

Z39.50 Servers

[Back](#) [Next](#)

<input checked="" type="checkbox"/>	Z39.50 Source	Label	Host
<input type="checkbox"/>	biblios	‡biblios.net	z3950.biblios.net
<input type="checkbox"/>	loc	Library of Congress	z3950.loc.gov
<input type="checkbox"/>	oclc	OCLC	zcat.oclc.org

Z39.50 Source	<input type="text" value="oclc"/>
Label	<input type="text" value="OCLC"/>
Host	<input type="text" value="zcat.oclc.org"/>
Port	<input type="text" value="210"/>
DB	<input type="text" value="OLUCWorldCat"/>
Record Format	<input type="text" value="FI"/>
Transmission Format	<input type="text" value="usmarc"/>
Auth	<input checked="" type="checkbox"/>
Use Permission	<input type="text" value="RESTRICT_Z39.50"/>
<input type="button" value="Cancel"/>	<input type="button" value="Save"/>

- 4) Click Add.
- 5) The new permission appears in the list of permissions.

Restrict Z39.50 Sources by Permission Group

- 1) Click Admin → Server Administration → Z39.50 Servers
- 2) Click New Z39.50 Server, or double click on an existing Z39.50 server to restrict its use.
- 3) Select the permission that you added to restrict Z39.50 use from the drop down menu.

1 Server Settings | 2 Server Settings

Go Back | Reload | Go Forward

New Permission: Add

Code	Description
ABORT_REMOTE_TRANSIT	Allow a user to ab

Translate ▼

4) Click Save.

5) Add the permission that you created to a user or user group so that they can access the restricted server.

Group Permissions

	Depth	Grantable
FIELD_DEF	Consortium	<input checked="" type="checkbox"/>
IPORT_IMPORT_FIELD_DEF	Consortium	<input checked="" type="checkbox"/>
IPORT_IMPORT_FIELD_DEF	Consortium	<input checked="" type="checkbox"/>
MPORT_FIELD_DEF	Consortium	<input checked="" type="checkbox"/>
_ATTR_DEF	Consortium	<input checked="" type="checkbox"/>
H_FIELD	Consortium	<input checked="" type="checkbox"/>

New Mapping ▼ Save Changes

Permission:

Depth:

Grantable:

Add Mapping

6) Users that log in to the staff client and have that permission will be able to see the restricted Z39.50 server.



As an alternative to creating a new permission to restrict use, you can use a preexisting permission. For example, your library uses a permission group called SuperCat, and only members in this group should have access to a restricted Z39.50 source. Identify a permission that is unique to the SuperCat group (e.g. CREATE_MARC) and apply that permission to the restricted Z39.50 server. Because these users are in the only group with the permission, they will be the only group w/ access to the restricted server.

Storing Z39.50 Server Credentials

Staff have the option to apply Z39.50 login credentials to each Z39.50 server at different levels of the organizational unit hierarchy. Credentials can be set at the library branch or system level, or for an entire consortium. When credentials are set for a Z39.50 server, searches of the Z39.50 server will use the stored credentials. If a staff member provides alternate credentials in the Z39.50 search interface, the supplied credentials will override the stored ones. Staff have the ability to apply new credentials or clear existing ones in this interface. For security purposes, it is not possible for staff to retrieve or report on passwords.

To set up stored credentials for a Z39.50 server:

1) Go to Admin → Server Administration → Z39.50 Servers.

- 2) Select a Z39.50 Source by clicking on the hyperlinked source name. This will take you the Z39.50 Attributes for the source.
- 3) At the top of the screen, select the org unit for which you would like to configure the credentials.
- 4) Enter the Username and Password, and click Apply Credentials.

Go Back
Reload
Go Forward
Debug
Print Page

Z39.50 Attributes for oclc

New
Delete Selected
Clone Attributes From Source

Return to Sources

Credentials for APEX Username Password
Apply Credentials Clear Stored Credentials

Filter

✓	#	Z39.50 Source	Name	Label	Code	Format	Truncation
<input type="checkbox"/>	1	oclc	title	Title	4	6	0
<input type="checkbox"/>	2	oclc	isbn	ISBN	7	6	0
<input type="checkbox"/>	3	oclc	issn	ISSN	8	1	0
<input type="checkbox"/>	4	oclc	lccn	LCCN	9	1	0
<input type="checkbox"/>	5	oclc	tcn	Title Control Number	12	1	0
<input type="checkbox"/>	6	oclc	pubdate	Publication Date	31	1	0
<input type="checkbox"/>	7	oclc	item_type	Item Type	1001	1	0
<input type="checkbox"/>	8	oclc	author	Author	1003	6	0
<input type="checkbox"/>	9	oclc	publisher	Publisher	1018	6	0

Part VII. Local Administration

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Chapter 70. Introduction

This part covers the options in the Local Administration menu found in the staff client.

Chapter 71. Library Settings Editor

With the Library Settings Editor one can optionally customize Evergreen's behavior for a particular library or library system. For descriptions of available settings see the [Settings Overview](#) table below.

Editing Library Settings

1. To open the Library Settings Editor select Admin → Local Administration → Library Settings Editor.
2. Settings having effects on the same function or module are grouped together. You may browse the list or search for the entry you want to edit. Type in your search term in the filter box. You may clear or re-apply the filter by clicking Clear Filter or Filter.

Edit	History	Group	Setting	Context	Value
Edit	History	Circulation	Block hold request if hold recipient privileges have expired	BW	True
Edit	History	Circulation	Checkout Fills Related Hold	BW	True
Edit	History	Circulation	Checkout Fills Related Hold On Valid Copy Only	BW	True
Edit	History	Circulation	Hold Shelf Status Delay	BW	3 hours
Edit	History	Circulation	Suppress Hold Transits Group		
Edit	History	Circulation	Suppress Non-Hold Transits Group		
Edit	History	Circulation	Target copies for a hold even if copy's circ lib is closed		
Edit	History	Circulation	Target copies for a hold even if copy's circ lib is closed IF the circ lib is the hold's pickup lib		
Edit	History	GUI	Horizontal layout for Volume/Copy Creator/Editor.		
Edit	History	GUI	Record In-House Use: # of uses threshold for Are You Sure? dialog.		
Edit	History	Holds	Behind Desk Pickup Supported		
Edit	History	Holds	Block Renewal of Items Needed for Holds		
Edit	History	Holds	Bypass hold capture during clear shelf process		

3. To edit an entry click Edit in the line.
4. Read the instruction in the pop-up window. Make the change. Click Update Setting to save the change. Click Delete Setting if you wish to delete it.

Edit Setting [Close]

Hold Shelf Status Delay

The purpose is to provide an interval of time after an item goes into the on-holds-shelf status before it appears to patrons that it is actually on the holds shelf. This gives staff time to process the item before it shows as ready-for-pickup. Examples: "5 days", "1 hour"

Context:

Value:

5. Click History to view the previous values, if any, of a setting. You can revert back to an old value by clicking revert.

History

Hold Shelf Status Delay

Date Changed	Location	Original Value	New Value	
2012-06-01T15:59:49-0700	BW	"1 hours"	"5 hours"	Revert
2012-06-01T15:59:42-0700	BW	"1 hours"	"1 hours"	Revert
2012-06-01T15:41:08-0700	BW	"3 hours"	"1 hours"	Revert



Please note that different settings may require different data formats, which are listed in the [Settings Overview](#) table. Refer to the [Data Types](#) table at the bottom of this page for more information.

Exporting/Importing Library Settings

1. To export library settings, click the Export button on the above Library Setting Editor screen. Click Copy in the pop-up window. Those settings displayed on the screen are copied to the clipboard. Paste the contents to a text editor, such as Notepad. Save the file on your computer.

Export

Copy this to your clipboard and save it to a file to export the settings.

```
{circ.offline.skip_checkout_if_newer_status_changed_time:  
  {"org": "10", "value": null}, "circ.claim_return.copy_status":  
  {"org": 1, "value": "107"}, "cat.default_copy_status_normal":  
  {"org": 10, "value": "9"}, "circ.holds.clear_shelf.copy_status"  
  :  
  {"org": "10", "value": null}, "circ.offline.skip_checkin_if_newer_status_changed_time":  
  {"org": "10", "value": null}, "circ.missing_pieces.copy_status"  
  :  
  {"org": "10", "value": null}, "circ.selfcheck.block_checkout_on_copy_status":  
  {"org": "10", "value": null}, "cat.default_copy_status_fast":
```

Copy

2. To import library settings, click the Import button on the Library Settings Editor screen. Open your previously saved file and copy the contents. Click Paste in the pop-up window. Click Submit.

Import
✕

Paste in your exported settings.

Paste
Submit

Settings Overview

The settings are grouped together in separate tables based on functions and modules, which are affected by the setting. They are in the same sequence as you see in the staff client. Each table describes the available settings in the group and shows which can be changed on a per-library basis. At the bottom is the table with a list of [data types](#) with details about acceptable settings values.

Table 71.1. Acquisitions

Setting	Description	Data type	Notes
Allow funds to be rolled over without bringing money along	Allow funds to be rolled over without bringing the money along. This makes money left in the old fund disappear, modeling its return to some outside entity.	True/False	
Allows patrons to create automatic holds from purchase requests.	Allows patrons to create automatic holds from purchase requests.	True/False	
Default circulation modifier	Sets the default circulation modifier for use in acquisitions.	Text	

Setting	Description	Data type	Notes
Default copy location	Sets the default copy location(shelving location) for use in acquisitions.	Selection list	
Fund Spending Limit for Block	When the amount remaining in the fund, including spent money and encumbrances, goes below this percentage, attempts to spend from the fund will be blocked.	Number	
Fund Spending Limit for Warning	When the amount remaining in the fund, including spent money and encumbrances, goes below this percentage, attempts to spend from the fund will result in a warning to the staff.	Number	
Rollover Distribution Formulae Funds	During fiscal rollover, update distribution formulae to use new funds	True/False	
Set copy creator as receiver	When receiving a copy in acquisitions, set the copy "creator" to be the staff that received the copy	True/False	
Temporary barcode prefix	Temporary barcode prefix added to temporary item records.	Text	
Temporary call number prefix	Temporary call number prefix	Text	
Upload Activate PO	Activate the purchase order by default during ACQ file upload	True/False	
Upload Create PO	Create a purchase order by default during ACQ file upload	True/False	

Setting	Description	Data type	Notes
Upload Default Insufficient Quality Fall-Thru Profile	Default low-quality fall through profile used during ACQ file upload	Selection List	Match Only Merge and Full Overlay are the selections.
Upload Default Match Set	Default match set to use during ACQ file upload	Selection List	Can be set to authority test or biblio
Upload Default Merge Profile	Default merge profile to use during ACQ file upload	Selection List	Match Only Merge and Full Overlay are the selections.
Upload Default Min. Quality Ratio	Default minimum quality ratio used during ACQ file upload	Number	
Upload Default Provider	Default provider to use during ACQ file upload	Selection List	This list is populated by your Providers.
Upload Import Non Matching by Default	Import non-matching records by default during ACQ file upload	True/False	
Upload Load Items for Imported Records by Default	Load items for imported records by default during ACQ file upload	True/False	
Upload Merge on Best Match by Default	Merge records on best match by default during ACQ file upload	True/False	
Upload Merge on Exact Match by Default	Merge records on exact match by default during ACQ file upload	True/False	
Upload Merge on Single Match by Default	Merge records on single match by default during ACQ file upload	True/False	

Table 71.2. Booking and Cataloging

Setting	Description	Data type	Notes
Allow email notify	Permit email notification when a reservation is ready for pick-up.	True/false	
Elbow room	Elbow room specifies how far in the future you must make a reservation on an	Duration	

Setting	Description	Data type	Notes
	item if that item will have to transit to reach its pick-up location. It secondarily defines how soon a reservation on a given item must start before the check-in process will opportunistically capture it for the reservation shelf.		
Default Classification Scheme	Defines the default classification scheme for new call numbers: 1 = Generic; 2 = Dewey; 3 = LC	Number	It has effect on call number sorting.
Default copy status (fast add)	Default status when a copy is created using the "Fast Item Add" interface.	Selection list	Default: In process
Default copy status (normal)	Default status when a copy is created using the normal volume/ copy creator interface.	Selection list	
Defines the control number identifier used in 003 and 035 fields		Text	
Delete bib if all copies are deleted via Acquisitions line item cancellation.		True/False	
Delete volume with last copy	Automatically delete a volume when the last linked copy is deleted.	True/False	Default TRUE
Maximum Parallel Z39.50 Batch Searches	The maximum number of Z39.50 searches that can be in-flight at any given time when performing batch Z39.50 searches	Number	
Maximum Z39.50 Batch Search Results	The maximum number of search results to retrieve and queue for each record + Z39	Number	

Setting	Description	Data type	Notes
	source during batch Z39.50 searches		
Spine and pocket label font family	Set the preferred font family for spine and pocket labels. You can specify a list of fonts, separated by commas, in order of preference; the system will use the first font it finds with a matching name. For example, "Arial, Helvetica, serif".	Text	
Spine and pocket label font size	Set the default font size for spine and pocket labels	Number	
Spine and pocket label font weight	Set the preferred font weight for spine and pocket labels. You can specify "normal", "bold", "bolder", or "lighter".	Text	
Spine label left margin	Set the left margin for spine labels in number of characters.	Number	
Spine label line width	Set the default line width for spine labels in number of characters. This specifies the boundary at which lines must be wrapped.	Number	
Spine label maximum lines	Set the default maximum number of lines for spine labels.	Number	

Table 71.3. Circulation

Setting	Description	Data type	Notes
Auto-extend grace periods	When enabled grace periods will auto-extend. By default this will be only when they are a full day or more	True/False	

Setting	Description	Data type	Notes
	and end on a closed date, though other options can alter this.		
Auto-extending grace periods extend for all closed dates	It works when the above setting "Auto-Extend Grace Periods" is set to TRUE. If enabled, when the grace period falls on a closed date(s), it will be extended past all closed dates that intersect, but within the hard-coded limits (your library's grace period).	True/False	
Auto-extending grace periods include trailing closed dates	It works when the above setting "Auto-Extend Grace Periods" is set to TRUE. If enabled, grace periods will include closed dates that directly follow the last day of the grace period. A backdated check-in with effective date on the closed dates will assume the item is returned after hours on the last day of the grace period.	True/False	Useful when libraries' book drop equipped with AMH.
Block hold request if hold recipient privileges have expired		True/False	
Cap max fine at item price	This prevents the system from charging more than the item price in overdue fines	True/False	
Charge fines on overdue circulations when closed	When set to True, fines will be charged during scheduled closings and normal weekly closed days.	True/False	

Setting	Description	Data type	Notes
Checkout fills related hold	When a patron checks out an item and they have no holds that directly target the item, the system will attempt to find a hold for the patron that could be fulfilled by the checked out item and fulfills it. On the Staff Client you may notice that when a patron checks out an item under a title on which he/she has a hold, the hold will be treated as filled though the item has not been assigned to the patron's hold.	True/false	
Checkout fills related hold on valid copy only	When filling related holds on checkout only match on items that are valid for opportunistic capture for the hold. Without this set a Title or Volume hold could match when the item is not holdable. With this set only holdable items will match.	True/False	
Checkout auto renew age	When an item has been checked out for at least this amount of time, an attempt to check out the item to the patron that it is already checked out to will simply renew the circulation. If the checkout attempt is done within this time frame, Evergreen will prompt for choosing Renewing or Check-in then Checkout the item.	Duration	

Setting	Description	Data type	Notes
Display copy alert for in-house-use	Setting to true for an organization will cause an alert to appear with the copy's alert message, if it has one, when recording in-house-use for the copy.	True/False	
Display copy location check in alert for in-house-use	Setting to true for an organization will cause an alert to display a message indicating that the item needs to be routed to its location if the location has check in alert set to true.	True/False	
Do not change fines/fees on zero-balance LOST transaction	When an item has been marked lost and all fines/fees have been completely paid on the transaction, do not void or reinstate any fines/fees EVEN IF "Void lost item billing when returned" and/or "Void processing fee on lost item return" are enabled	True/False	
Do not include outstanding Claims Returned circulations in lump sum tallies in Patron Display.	In the Patron Display interface, the number of total active circulations for a given patron is presented in the Summary sidebar and underneath the Items Out navigation button. This setting will prevent Claims Returned circulations from counting toward these tallies.	True/False	
Hold shelf status delay	The purpose is to provide an interval of time after an item goes into the on-holds-shelf status before it	Duration	

Setting	Description	Data type	Notes
	appears to patrons that it is actually on the holds shelf. This gives staff time to process the item before it shows as ready-for-pick-up.		
Include Lost circulations in lump sum tallies in Patron Display.	In the Patron Display interface, the number of total active circulations for a given patron is presented in the Summary sidebar and underneath the Items Out navigation button. This setting will include Lost circulations as counting toward these tallies.	True/False	
Invalid patron address penalty	When set, if a patron address is set to invalid, a penalty is applied.	True/False	
Item status for missing pieces	This is the Item Status to use for items that have been marked or scanned as having Missing Pieces. In the absence of this setting, the Damaged status is used.	Selection list	
Load patron from Checkout	When scanning barcodes into Checkout auto-detect if a new patron barcode is scanned and auto-load the new patron.	True/False	
Long-Overdue Check-In Interval Uses Last Activity Date	Use the long-overdue last-activity date instead of the due_date to determine whether the item has been checked out too long to perform long-overdue check-in	True/False	

Setting	Description	Data type	Notes
	processing. If set, the system will first check the last payment time, followed by the last billing time, followed by the due date. See also "Long-Overdue Max Return Interval"		
Long-Overdue Items Usable on Checkin	Long-overdue items are usable on checkin instead of going "home" first	True/False	
Long-Overdue Max Return Interval	Long-overdue check-in processing (voiding fees, re-instating overdues, etc.) will not take place for items that have been overdue for (or have last activity older than) this amount of time	Duration	
Lost check-in generates new overdues	Enabling this setting causes retroactive creation of not-yet-existing overdue fines on lost item check-in, up to the point of check-in time (or max fines is reached). This is different than "restore overdue on lost", because it only creates new overdue fines. Use both settings together to get the full complement of overdue fines for a lost item	True/False	
Lost items usable on checkin	Lost items are usable on checkin instead of going home first	True/false	
Max patron claims returned count	When this count is exceeded, a staff override is required to mark the item as claims returned.	Number	

Setting	Description	Data type	Notes
Maximum visible age of User Trigger Events in Staff Interfaces	If this is unset, staff can view User Trigger Events regardless of age. When this is set to an interval, it represents the age of the oldest possible User Trigger Event that can be viewed.	Duration	
Minimum transit checkin interval	In-Transit items checked in this close to the transit start time will be prevented from checking in	Duration	
Patron merge address delete	Delete address(es) of subordinate user(s) in a patron merge.	True/False	
Patron merge barcode delete	Delete barcode(s) of subordinate user(s) in a patron merge	True/False	
Patron merge deactivate card	Mark barcode(s) of subordinate user(s) in a patron merge as inactive.	True/False	
Patron Registration: Cloned patrons get address copy	If True, in the Patron editor, addresses are copied from the cloned user. If False, addresses are linked from the cloned user which can only be edited from the cloned user record.	True/False	
Printing: custom JavaScript file	Full URL path to a JavaScript File to be loaded when printing. Should implement a print_custom function for DOM manipulation. Can change the value of the do_print variable to false to cancel printing.	Text	
Require matching email address for		True/False	

Setting	Description	Data type	Notes
password reset requests			
Restore Overdues on Long-Overdue Item Return		True/False	
Restore overdues on lost item return	If true when a lost item is checked in overdue fines are charged (up to the maximum fines amount)	True/False	
Specify search depth for the duplicate patron check in the patron editor	When using the patron registration page, the duplicate patron check will use the configured depth to scope the search for duplicate patrons.	Number	
Suppress hold transits group	To create a group of libraries to suppress Hold Transits among them. All libraries in the group should use the same unique value. Leave it empty if transits should not be suppressed.	Text	
Suppress non-hold transits group	To create a group of libraries to suppress Non-Hold Transits among them. All libraries in the group should use the same unique value. Leave it empty if Non-Hold Transits should not be suppressed.	Text	
Suppress popup-dialogs during check-in.	When set to True, no pop-up window for exceptions on check-in. But the accompanying sound will be played.	True/False	
Target copies for a hold even if copy's circ lib is closed	If this setting is true at a given org unit or one of its ancestors, the hold targeter will	True/False	Set the value to True if you want to target copies for holds at closed circulating

Setting	Description	Data type	Notes
	target copies from this org unit even if the org unit is closed (according to the Org Unit's closed dates.).		libraries. Set the value to False, or leave it unset, if you do not want to enable this feature.
Target copies for a hold even if copy's circ lib is closed IF the circ lib is the hold's pickup lib	If this setting is true at a given org unit or one of its ancestors, the hold targeter will target copies from this org unit even if the org unit is closed (according to the Org Unit's closed dates) IF AND ONLY IF the copy's circ lib is the same as the hold's pickup lib.	True/False	Set the value to True if you want to target copies for holds at closed circulating libraries when the circulating library of the item and the pickup library of the hold are the same. Set the value to False, or leave it unset, if you do not want to enable this feature.
Truncate fines to max fine amount		True/False	Default:TRUE
Use Lost and Paid copy status	Use Lost and Paid copy status when lost or long overdue billing is paid	True/False	
Void Long-Overdue Item Billing When Returned		True/False	
Void Processing Fee on Long-Overdue Item Return		True/False	
Void longoverdue item billing when claims returned		True/False	
Void longoverdue item processing fee when claims returned		True/False	
Void lost item billing when claims returned		True/False	
Void lost item billing when returned	If true,when a lost item is checked in the item replacement bill (item price) is voided.	True/False	

Setting	Description	Data type	Notes
Void lost item processing fee when claims returned	When an item is marked claims returned that was marked Lost, the item processing fee will be voided.	True/False	
Void lost max interval	Items that have been overdue this long will not result in lost charges being voided when returned, and the overdue fines will not be restored, either. Only applies if Circ: Void lost item billing or Circ: Void processing fee on lost item are true.	Duration	
Void processing fee on lost item return	Void processing fee when lost item returned	True/False	
Warn when patron account is about to expire	If set, the staff client displays a warning this number of days before the expiry of a patron account. Value is in number of days.	Duration	

Table 71.4. Credit Card Processing

Setting	Description	Data type	Notes
AuthorizeNet login	Authorize.Net Username	Text	Obtain from Authorize.Net at http://www.authorize.net
AuthorizeNet password	Authorize.Net Password	Text	Obtain from Authorize.Net
AuthorizeNet server	Required if using a developer/test account with Authorize.Net.	Text	Enter the server name from Authorize.Net. This is for use on test or developer account. If using live, leave blank.

Setting	Description	Data type	Notes
AuthorizeNet test mode	Places Authorize.Net transactions in Test Mode	True/False	
Enable AuthorizeNet payments	This actually enables use of Authorize.Net	True/False	
Enable PayPal payments	This will enable use of PayPal payments through the staff client.	True/False	
Enable PayflowPro payments	This will enable the use of PayPal's Payflow Pro. This is not the same is PayPal.	True/False	
Enable Stripe payments	This will enable the use of the stripe credit card processing.	True/False	https://stripe.com
Name default credit processor	This might be "AuthorizeNet", "PayPal", "PayflowPro", or "Stripe".	Text	This sets the company that you will use to process the credit cards.
PayPal login	Enter the PayPal login Username	Text	Obtain from PayPal
PayPal password	Enter the PayPal password.	Text	Obtain from PayPal.
PayPal signature	HASH Signature for PayPal	Text	Enter the HASH obtained from PayPal.
PayPal test mode	Places the PayPal credit card payments in test mode.	True/False	This sends the transactions to PayPal's development.paypal.com server for testing only.
PayflowPro login/merchant ID	Enter the PayflowPro Merchant ID	Text	Obtain from Payflow Pro Partner.
PayflowPro partner	Enter the Partner ID from your Payflow Partner	Text	This will be obtained from your Payflow Pro partner. This can be "PayPal" or "VeriSign", sometimes others.
PayflowPro password	Password for PayflowPro	Text	Obtain from Payflow Pro Partner
PayflowPro test mode	Place Payflow Pro in test mode.	True/False	Do not really process transactions, but stay in test mode - uses pilot-

Setting	Description	Data type	Notes
			payflowpro.paypal.com instead of the usual host.
PayflowPro vendor	Currently the same as the Payflow Pro login.	Text	Obtain from Payflow Pro partner.
Stripe publishable key	Publishable API Key from stripe.	Text	
Stripe secret key	Secret API key from stripe.	Text	

Table 71.5. Finances

Setting	Description	Data type	Notes
Allow credit card payments	If enabled, patrons will be able to pay fines accrued at this location via credit card.	True/False	
Charge item price when marked damaged	If true Evergreen bills item price to the last patron who checked out the damaged item. Staff receive an alert with patron information and must confirm the billing.	True/false	
Charge lost on zero	If set to True, default item price will be charged when an item is marked lost even though the price in item record is 0.00 (same as no price). If False, only processing fee, if used, will be charged.	True/false	
Charge processing fee for damaged items	Optional processing fee billed to last patron who checked out the damaged item. Staff receive an alert with patron information and must confirm the billing.	Number(Dollar)	Disabled when set to 0

Setting	Description	Data type	Notes
Default item price	Replacement charge for lost items if price is unset in the Copy Editor. Does not apply if item price is set to \$0	Number(dollars)	
Disable Patron Credit	Do not allow patrons to accrue credit or pay fines/fees with accrued credit	True/False	
Leave transaction open when long overdue balance equals zero	Leave transaction open when long-overdue balance equals zero. This leaves the lost copy on the patron record when it is paid	True/False	
Leave transaction open when lost balance equals zero	Leave transaction open when lost balance equals zero. This leaves the lost copy on the patron record when it is paid	True/False	
Long-Overdue Materials Processing Fee	The amount charged in addition to item price when an item is marked Long-Overdue	Number	Currency
Lost materials processing fee	The amount charged in addition to item price when an item is marked lost.	Number	Currency
Maximum Item Price	When charging for lost items, limit the charge to this as a maximum.	Number	Currency
Minimum Item Price	When charging for lost items, charge this amount as a minimum.	Number	Currency
Negative Balance Interval (DEFAULT)	Amount of time after which no negative balances (refunds) are allowed on circulation bills. The "Prohibit negative balance on bills" setting must also be set to "true".	Duration	

Setting	Description	Data type	Notes
Negative Balance Interval for Lost	Amount of time after which no negative balances (refunds) are allowed on bills for lost/long overdue materials. The "Prohibit negative balance on bills for lost materials" setting must also be set to "true".	Duration	
Negative Balance Interval for Overdues	Amount of time after which no negative balances (refunds) are allowed on bills for overdue materials. The "Prohibit negative balance on bills for overdue materials" setting must also be set to "true".	Duration	
Prohibit negative balance on bills (Default)	Default setting to prevent negative balances (refunds) on circulation related bills. Set to "true" to prohibit negative balances at all times or, when used in conjunction with an interval setting, to prohibit negative balances after a set period of time.	True/False	
Prohibit negative balance on bills for lost materials	Prevent negative balances (refunds) on bills for lost/long overdue materials. Set to "true" to prohibit negative balances at all times or, when used in conjunction with an interval setting, to prohibit negative balances after an interval of time.	True/False	

Setting	Description	Data type	Notes
Prohibit negative balance on bills for overdue materials	Prevent negative balances (refunds) on bills for lost/long overdue materials. Set to "true" to prohibit negative balances at all times or, when used in conjunction with an interval setting, to prohibit negative balances after an interval of time.	True/False	
Void Overdue Fines When Items are Marked Long-Overdue	If true overdue fines are voided when an item is marked Long-Overdue	True/False	
Void overdue fines when items are marked lost	If true overdue fines are voided when an item is marked lost	True/False	

Table 71.6. GUI: Graphic User Interface

Setting	Description	Data type	Notes
Alert on empty bib records	Alert staff when the last copy for a record is being deleted.	True/False	
Button bar	If TRUE, the staff client button bar appears by default on all workstations registered to your library; staff can override this setting at each login.	True/False	
Cap results in Patron Search at this number.	The maximum number of results returned per search. If 100 is set up here, any search will return 100 records at most.	Number	
Default Country for New Addresses in Patron Editor	This is the default Country for new addresses in the patron editor.	Text	

Setting	Description	Data type	Notes
Default hotkeyset	Default Hotkeyset for clients (filename without the .keyset). Examples: Default, Minimal, and None	Text	Individual workstations' default overrides this setting.
Default ident type for patron registration	This is the default Ident Type for new users in the patron editor.	Selection list	
Default showing suggested patron registration fields	Instead of All fields, show just suggested fields in patron registration by default.	True/False	
Disable the ability to save list column configurations locally.	GUI: Disable the ability to save list column configurations locally. If set, columns may still be manipulated, however, the changes do not persist. Also, existing local configurations are ignored if this setting is true.	True/False	
Example for Day_phone field on patron registration	The example on validation on the Day_phone field in patron registration.	Text	
Example for Email field on patron registration	The example on validation on the Email field in patron registration.	Text	
Example for Evening-phone on patron registration	The example on validation on the Evening-phone field in patron registration.	Text	
Example for Other-phone on patron registration	The example on validation on the Other-phone field in patron registration.	Text	
Example for phone fields on patron registration	The example on validation on phone fields in patron registration. Applies to	Text	

Setting	Description	Data type	Notes
	all phone fields without their own setting.		
Example for Postal Code field on patron registration	The example on validation on the Postal Code field in patron registration.	Text	
Format Dates with this pattern.	Format Dates with this pattern (examples: "yyyy-MM-dd" for "2010-04-26", "MMM d, yyyy" for "Apr 26, 2010"). Formats are effective in display (not editing) area.	Text	
Format Times with this pattern.	Format Times with this pattern (examples: "h:m:s.SSS a z" for "2:07:20.666 PM Eastern Daylight Time", "HH:mm" for "14:07"). Formats are effective in display (not editing) area.	Text	
GUI: Hide these fields within the Item Attribute Editor.	Sets which fields in the Item Attribute Editor to hide in the staff client.	Text	This is useful to hide attributes that are not used.
Horizontal layout for Volume/Copy Creator/ Editor.	The main entry point for this interface is in Holdings Maintenance, Actions for Selected Rows, Edit Item Attributes / Call Numbers / Replace Barcodes. This setting changes the top and bottom panes (if FALSE) for that interface into left and right panes (if TRUE).	True/False	
Idle timeout	If you want staff client windows to be minimized after a certain amount of system idle time, set this to the number of	Number	

Setting	Description	Data type	Notes
	seconds of idle time that you want to allow before minimizing (requires staff client restart).		
Items Out Claims Returned display setting	Value is a numeric code, describing which list the circulation should appear while checked out and whether the circulation should continue to appear in the bottom list, when checked in with outstanding fines. 1 = top list, bottom list. 2 = bottom list, bottom list. 5 = top list, do not display. 6 = bottom list, do not display.	Number	
Items Out Long-Overdue display setting	Value is a numeric code, describing which list the circulation should appear while checked out and whether the circulation should continue to appear in the bottom list, when checked in with outstanding fines. 1 = top list, bottom list. 2 = bottom list, bottom list. 5 = top list, do not display. 6 = bottom list, do not display.	Number	
Items Out Lost display setting	Value is a numeric code, describing which list the circulation should appear while checked out and whether the circulation should continue to appear in the bottom list, when checked in	Number	

Setting	Description	Data type	Notes
	with outstanding fines. 1 = top list, bottom list. 2 = bottom list, bottom list. 5 = top list, do not display. 6 = bottom list, do not display.		
Max user activity entries to retrieve (staff client)	Sets the maximum number of recent user activity entries to retrieve for display in the staff client.	Number	
Maximum previous checkouts displayed	The maximum number of previous circulations the staff client will display when investigating item details	Number	
Patron circulation summary is horizontal		True/False	
Record in-house use: # of uses threshold for Are You Sure? dialog.	In the Record In-House Use interface, a submission attempt will warn if the # of uses field exceeds the value of this setting.	Number	
Record In-House Use: Maximum # of uses allowed per entry.	The # of uses entry in the Record In-House Use interface may not exceed the value of this setting.	Number	
Regex for barcodes on patron registration	The Regular Expression for validation on barcodes in patron registration.	Regular Expression	
Regex for Day_phone field on patron registration		Regular expression	
Regex for Email field on patron registration	The Regular Expression on validation on the Email field in patron registration.	Regular expression	

Setting	Description	Data type	Notes
Regex for Evening-phone on patron registration	The Regular Expression on validation on the Evening-phone field in patron registration.	Regular expression	
Regex for Other-phone on patron registration	The Regular Expression on validation on the Other-phone field in patron registration.	Regular expression	
Regex for phone fields on patron registration	The Regular Expression on validation on phone fields in patron registration. Applies to all phone fields without their own setting.	Regular expression	^(?: (?: \+?1\s*(?: [.-]\s*)?)?(?: \(\s*([2-9]1[02-9] [2-9][02-8]1 [2-9][02-8][02-9])\s*\) ([2-9]1[02-9] [2-9][02-8]1 [2-9][02-8][02-9]))\s*(?: [.-]\s*)?)? ([2-9]1[02-9] [2-9][02-9]1 [2-9][02-9]{2})\s*(?: [.-]\s*)?([0-9]{4}) (?: \s*(?: # x\.? ext\.? extension)\s*(\d+))?)?\$ is a US phone number
Regex for Postal Code field on patron registration	The Regular Expression on validation on the Postal Code field in patron registration.	Regular expression	
Require at least one address for Patron Registration	Enforces a requirement for having at least one address for a patron during registration. If set to False, you need to delete the empty address before saving the record. If set to True, deletion is not allowed.	True/False	
Require XXXXX field on patron registration	The XXXXX field will be required on the patron registration screen.	True/False	XXXXX can be Country, State, Day-phone, Evening-phone, Other-phone, DOB, Email, or Prefix.

Setting	Description	Data type	Notes
Require staff initials for entry/edit of patron standing penalties and messages.	Appends staff initials and edit date into patron standing penalties and messages.	True/False	
Require staff initials for entry/edit of patron notes.	Appends staff initials and edit date into patron note content.	True/False	
Require staff initials for entry/edit of copy notes.	Appends staff initials and edit date into copy note content.	True/False	
Show billing tab first when bills are present	If true accounts for patrons with bills will open to the billing tab instead of check out	True/false	
Show XXXXX field on patron registration	The XXXXX field will be shown on the patron registration screen. Showing a field makes it appear with required fields even when not required. If the field is required this setting is ignored.	True/False	
Suggest XXXXX field on patron registration	The XXXXX field will be suggested on the patron registration screen. Suggesting a field makes it appear when suggested fields are shown. If the field is shown or required this setting is ignored.	True/False	
Toggle off the patron summary sidebar after first view.	When true, the patron summary sidebar will collapse after a new patron sub-interface is selected.	True/False	
URL for remote directory containing list column settings.	The format and naming convention for the files found in this directory match those in the local settings directory for a given workstation. An administrator could	Text	

Setting	Description	Data type	Notes
	create the desired settings locally and then copy all the tree_columns_for_* files to the remote directory.		
Uncheck bills by default in the patron billing interface	Uncheck bills by default in the patron billing interface, and focus on the Uncheck All button instead of the Payment Received field.	True/False	
Unified Volume/Item Creator/Editor	If True, combines the Volume/Copy Creator and Item Attribute Editor in some instances.	True/False	
Work Log: maximum actions logged	Maximum entries for "Most Recent Staff Actions" section of the Work Log interface.	Number	
Work Log: maximum patrons logged	Maximum entries for "Most Recently Affected Patrons..." section of the Work Log interface.	Number	

Table 71.7. Global

Setting	Description	Data type	Notes
Allow multiple username changes	If enabled (and Lock Usernames is not set) patrons will be allowed to change their username when it does not look like a barcode. Otherwise username changing in the OPAC will only be allowed when the patron's username looks like a barcode.	True/False	Default TRUE.
Global default locale		Number	

Setting	Description	Data type	Notes
Lock Usernames	If enabled username changing via the OPAC will be disabled.	Default FALSE	
Password format	Defines acceptable format for OPAC account passwords	Regular expression	Default requires that passwords "be at least 7 characters in length, contain at least one letter (a-z/A-Z), and contain at least one number.
Patron barcode format	Defines acceptable format for patron barcodes	Regular expression	
Patron username format	Regular expression defining the patron username format, used for patron registration and self-service username changing only	Regular expression	

Table 71.8. Holds

Setting	Description	Data type	Notes
Behind desk pickup supported	If a branch supports both a public holds shelf and behind-the-desk pickups, set this value to true. This gives the patron the option to enable behind-the-desk pickups for their holds by selecting Hold is behind Circ Desk flag in patron record.	True/False	
Best-hold selection sort order	Defines the sort order of holds when selecting a hold to fill using a given copy at capture time	Selection list	
Block renewal of items needed for holds	When an item could fulfill a hold, do not	True/False	

Setting	Description	Data type	Notes
	allow the current patron to renew		
Cancelled holds display age	Show all cancelled holds that were cancelled within this amount of time	Duration	
Cancelled holds display count	How many cancelled holds to show in patron holds interfaces	Number	
Clear shelf copy status	Any copies that have not been put into reshelving, in-transit, or on-holds-shelf (for a new hold) during the clear shelf process will be put into this status. This is basically a purgatory status for copies waiting to be pulled from the shelf and processed by hand	Selection list	
Default estimated wait	When predicting the amount of time a patron will be waiting for a hold to be fulfilled, this is the default estimated length of time to assume an item will be checked out.	Duration	
Default hold shelf expire interval	Hold Shelf Expiry Time is calculated and inserted into hold record based on this interval when capturing a hold.	Duration	
Expire alert interval	Time before a hold expires at which to send an email notifying the patron	Duration	
Expire interval	Amount of time until an unfulfilled hold expires	Duration	

Setting	Description	Data type	Notes
FIFO	Force holds to a more strict First-In, First-Out capture. Default is SAVE-GAS, which gives priority to holds with pickup location the same as checkin library.	True/False	Applies only to multi-branch libraries. Default is SAVE-GAS.
Hard boundary		Number	
Hard stalling interval		Duration	
Has local copy alert	If there is an available copy at the requesting library that could fulfill a hold during hold placement time, alert the patron.	True/False	
Has local copy block	If there is an available copy at the requesting library that could fulfill a hold during hold placement time, do not allow the hold to be placed.	True/False	
Max foreign-circulation time	Time a copy can spend circulating away from its circ lib before returning there to fill a hold	Duration	For multi-branch libraries.
Maximum library target attempts	When this value is set and greater than 0, the system will only attempt to find a copy at each possible branch the configured number of times	Number	For multi-branch libraries.
Minimum estimated wait	When predicting the amount of time a patron will be waiting for a hold to be fulfilled, this is the minimum estimated length of time to assume an item will be checked out.	Duration	

Setting	Description	Data type	Notes
Org unit target weight	Org Units can be organized into hold target groups based on a weight. Potential copies from org units with the same weight are chosen at random.	Number	
Reset request time on un-cancel	When a hold is uncancelled, reset the request time to push it to the end of the queue	True/False	
Skip for hold targeting	When true, don't target any copies at this org unit for holds	True/False	
Soft boundary	Holds will not be filled by copies outside this boundary if there are holdable copies within it.	Number	
Soft stalling interval	For this amount of time, holds will not be opportunistically captured at non-pickup branches.	Duration	For multiple branch libraries
Use Active Date for age protection	When calculating age protection rules use the Active date instead of the Creation Date.	True/False	Default TRUE
Use weight-based hold targeting	Use library weight based hold targeting	True/False	

Table 71.9. Library

Setting	Description	Data type	Notes
Change reshelving status interval	Amount of time to wait before changing an item from "Reshelving" status to "available"	Duration	The default is at midnight each night for items with "Reshelving" status for over 24 hours.
Claim never checked out: mark copy as missing	When a circ is marked as claims-never-checked-out, mark the copy as missing	True/False	

Setting	Description	Data type	Notes
Claim return copy status	Claims returned copies are put into this status. Default is to leave the copy in the Checked Out status	Selection list	
Courier code	Courier Code for the library. Available in transit slip templates as the %courier_code% macro.	Text	
Juvenile age threshold	Upper cut-off age for patrons to be considered juvenile, calculated from date of birth in patron accounts	Duration (years)	
Library information URL (such as "http://example.com/about.html")	URL for information on this library, such as contact information, hours of operation, and directions. Use a complete URL, such as "http://example.com/hours.html".	Text	
Mark item damaged voids overdues	When an item is marked damaged, overdue fines on the most recent circulation are voided.	True/False	
Pre-cat item circ lib	Override the default circ lib of "here" with a pre-configured circ lib for pre-cat items. The value should be the "shortname" (aka policy name) of the org unit	Text	
Telephony: Arbitrary line(s) to include in each notice callfile	This overrides lines from opensrf.xml. Line(s) must be valid for your target server and platform (e.g. Asterisk 1.4).	Text	

Table 71.10. OPAC

Setting	Description	Data type	Notes
Allow Patron Self-Registration	Allow patrons to self-register, creating pending user accounts	True/False	
Allow pending addresses	If true patrons can edit their addresses in the OPAC. Changes must be approved by staff	True/False	
Auto-Override Permitted Hold Blocks (Patrons)	This will allow patrons with the permission "HOLD_ITEM_CHECKED_OUT.override" to automatically override permitted holds.	True/False	When a patron places a hold in the OPAC that fails, and the patron has the permission to override the failed hold, this automatically overrides the failed hold rather than requiring the patron to manually override the hold. Default is False.
Jump to details on 1 hit (OPAC)	When a search yields only 1 result, jump directly to the record details page. This setting only affects the public OPAC	True/False	
Jump to details on 1 hit (staff client)	When a search yields only 1 result, jump directly to the record details page. This setting only affects the PAC within the staff client	True/False	
OPAC: Number of staff client saved searches to display on left side of results and record details pages	If unset, the OPAC (only when wrapped in the staff client!) will default to showing you your ten most recent searches on the left side of the results and record details pages. If you actually don't want to see this feature at all, set this value to zero at the top of your organizational tree.	Number	

Setting	Description	Data type	Notes
OPAC: Org Unit is not a hold pickup library	If set, this org unit will not be offered to the patron as an option for a hold pickup location. This setting has no affect on searching or hold targeting.	True/False	
Org unit hiding depth	This will hide certain org units in the public OPAC if the Original Location (url param "ol") for the OPAC inherits this setting. This setting specifies an org unit depth, that together with the OPAC Original Location determines which section of the Org Hierarchy should be visible in the OPAC. For example, a stock Evergreen installation will have a 3-tier hierarchy (Consortium/System/Branch), where System has a depth of 1 and Branch has a depth of 2. If this setting contains a depth of 1 in such an installation, then every library in the System in which the Original Location belongs will be visible, and everything else will be hidden. A depth of 0 will effectively make every org visible. The embedded OPAC in the staff client ignores this setting.	Number	
Paging shortcut links for OPAC Browse	The characters in this string, in order, will be used as shortcut links for quick	Text	

Setting	Description	Data type	Notes
	paging in the OPAC browse interface. Any sequence surrounded by asterisks will be taken as a whole label, not split into individual labels at the character level, but only the first character will serve as the basis of the search.		
Patron Self-Reg. Display Timeout	Number of seconds to wait before reloading the patron self-registration interface to clear sensitive data	Duration	
Patron Self-Reg. Expire Interval	If set, this is the amount of time a pending user account will be allowed to sit in the database. After this time, the pending user information will be purged	Duration	
Payment history age limit	The OPAC should not display payments by patrons that are older than any interval defined here.	Duration	
Tag Circulated Items in Results	When a user is both logged in and has opted in to circulation history tracking, turning on this setting will cause previous (or currently) circulated items to be highlighted in search results	True/False	
Tag Circulated Items in Results	When a user is both logged in and has opted in to circulation history tracking, turning on this setting will cause previous (or currently) circulated items to be highlighted in search results.	True/False	Default TRUE

Setting	Description	Data type	Notes
Use fully compressed serial holdings	Show fully compressed serial holdings for all libraries at and below the current context unit	True/False	
Warn patrons when adding to a temporary book list	Present a warning dialogue when a patron adds a book to the temporary book list.	True/False	

Table 71.11. Offline and Program

Setting	Description	Data type	Notes
Skip offline checkin if newer item Status Changed Time.	Skip offline checkin transaction (raise exception when processing) if item Status Changed Time is newer than the recorded transaction time. WARNING: The Reshelving to Available status rollover will trigger this.	True/False	
Skip offline checkout if newer item Status Changed Time.	Skip offline checkout transaction (raise exception when processing) if item Status Changed Time is newer than the recorded transaction time. WARNING: The Reshelving to Available status rollover will trigger this.	True/False	
Skip offline renewal if newer item Status Changed Time.	Skip offline renewal transaction (raise exception when processing) if item Status Changed Time is newer than the recorded transaction time. WARNING: The Reshelving to Available	True/False	

Setting	Description	Data type	Notes
	status rollover will trigger this.		
Disable automatic print attempt type list	Disable automatic print attempts from staff client interfaces for the receipt types in this list. Possible values: "Checkout", "Bill Pay", "Hold Slip", "Transit Slip", and "Hold/Transit Slip". This is different from the Auto-Print checkbox in the pertinent interfaces in that it disables automatic print attempts altogether, rather than encouraging silent printing by suppressing the print dialogue. The Auto-Print checkbox in these interfaces have no effect on the behavior for this setting. In the case of the Hold, Transit, and Hold/Transit slips, this also suppresses the alert dialogues that precede the print dialogue (the ones that offer Print and Do Not Print as options).	Text	
Retain empty bib records	Retain a bib record even when all attached copies are deleted	True/False	
Sending email address for patron notices	This email address is for automatically generated patron notices (e.g. email overdues, email holds notification). It is good practice to set up a generic account, like info@nameofyourlibrary.org ,	Text	

Setting	Description	Data type	Notes
	so that one person's individual email inbox doesn't get cluttered with emails that were not delivered.		

Table 71.12. Receipt Templates and SMS Text Message

Setting	Description	Data type	Notes
Content of alert_text include	Text/HTML/Macros to be inserted into receipt templates in place of %INCLUDE(alert_text)%	Text	
Content of event_text include	Text/HTML/Macros to be inserted into receipt templates in place of %INCLUDE(event_text)%	Text	
Content of footer_text include	Text/HTML/Macros to be inserted into receipt templates in place of %INCLUDE(footer_text)%	Text	
Content of header_text include	Text/HTML/Macros to be inserted into receipt templates in place of %INCLUDE(header_text)%	Text	
Content of notice_text include	Text/HTML/Macros to be inserted into receipt templates in place of %INCLUDE(notice_text)%	Text	
Disable auth requirement for texting call numbers.	Disable authentication requirement for sending call number information via SMS from the OPAC.	True/False	
Enable features that send SMS text messages.	Current features that use SMS include hold-ready-for-pickup notifications and a "Send Text" action for call numbers in the OPAC. If this setting is not enabled, the SMS options will not be offered to the	True/False	

Setting	Description	Data type	Notes
	user. Unless you are carefully silo-ing patrons and their use of the OPAC, the context org for this setting should be the top org in the org hierarchy, otherwise patrons can trample their user settings when jumping between orgs.		

Table 71.13. Security

Setting	Description	Data type	Notes
Default level of patrons' internet access	Enter numbers 1 (Filtered), 2 (Unfiltered), or 3 (No Access)	Number	
Maximum concurrently active self-serve password reset requests	Prevent the creation of new self-serve password reset requests until the number of active requests drops back below this number.	Number	
Maximum concurrently active self-serve password reset requests per user	When a user has more than this number of concurrently active self-serve password reset requests for their account, prevent the user from creating any new self-serve password reset requests until the number of active requests for the user drops back below this number.	Number	
OPAC Inactivity Timeout (in seconds)	Number of seconds of inactivity before OPAC accounts are	Number	

Setting	Description	Data type	Notes
	automatically logged out.		
Obscure the Date of Birth field	When true, the Date of Birth column in patron lists will default to Not Visible, and in the Patron Summary sidebar the value will display as unless the field label is clicked.	True/False	
Offline: Patron usernames allowed	During offline circulations, allow patrons to identify themselves with usernames in addition to barcode. For this setting to work, a barcode format must also be defined	True/False	
Patron opt-in boundary	This determines at which depth above which patrons must be opted in, and below which patrons will be assumed to be opted in.	Text	
Patron opt-in default	This is the default depth at which a patron is opted in; it is calculated as an org unit relative to the current workstation.	Text	
Patron: password from phone #	If true the last 4 digits of the patron's phone number is the password for new accounts (password must still be changed at first OPAC login)	True/false	
Persistent login duration	How long a persistent login lasts, e.g. 2 weeks	Duration	
Self-serve password reset request time-to-live	Length of time (in seconds) a self-serve	Duration	

Setting	Description	Data type	Notes
	password reset request should remain active.		
Staff login inactivity timeout (in seconds)	Number of seconds of inactivity before staff client prompts for login and password.	Number	

Table 71.14. Self Check and Others

Setting	Description	Data type	Notes
Audio Alerts	Use audio alerts for selfcheck events.	True/false	
Block copy checkout status	List of copy status IDs that will block checkout even if the generic COPY_NOT_AVAILABLE event is overridden.	Number	Look up copy status ID from Server Admin.
Patron login timeout (in seconds)	Number of seconds of inactivity before the patron is logged out of the selfcheck interface.	Duration	
Pop-up alert for errors	If true, checkout/renewal errors will cause a pop-up window in addition to the on-screen message.	True/False	
Require Patron Password	If true, patrons will be required to enter their password in addition to their username/barcode to log into the selfcheck interface.	True/False	This replaced "Require patron password"
Require patron password		True/False	This was replaced by "Require Patron Password" and is currently invalid.
Selfcheck override events list	List of checkout/renewal events that the selfcheck interface should automatically override instead of alerting	Text	

Setting	Description	Data type	Notes
	and stopping the transaction.		
Workstation Required	All selfcheck stations must use a workstation.	True/False	
Default display grouping for serials distributions presented in the OPAC.	Default display grouping for serials distributions presented in the OPAC. This can be "enum" or "chron".	Text	
Previous issuance copy location	When a serial issuance is received, copies (units) of the previous issuance will be automatically moved into the configured shelving location.	Selection List	
Maximum redirect lookups	For URLs returning 3XX redirects, this is the maximum number of redirects we will follow before giving up.	Number	
Maximum wait time (in seconds) for a URL to lookup	If we exceed the wait time, the URL is marked as a "timeout" and the system moves on to the next URL	Duration	
Number of URLs to test in parallel	URLs are tested in batches. This number defines the size of each batch and it directly relates to the number of back-end processes performing URL verification.	Number	
Number of seconds to wait between URL test attempts	Throttling mechanism for batch URL verification runs. Each running process will wait this number of seconds after a URL test before performing the next.	Duration	

Table 71.15. Vandelay

Setting	Description	Data type	Notes
Default Record Match Set	Sets the Default Record Match set	Selection List	Populated by the Vandelay Record Match Sets
Vandelay Default Barcode Prefix	Apply this prefix to any auto-generated item barcode	Text	
Vandelay Default Call Number Prefix	Apply this prefix to any auto-generated item call numbers.	Text	
Vandelay Default Circulation Modifier	Default circulation modifier value for imported items	Selection List	Populated by your Circulation Modifiers.
Vandelay Default Copy Location	Default copy location value for imported items	Selection List	Populated from Shelving Locations
Vandelay Generate Default Barcodes	Auto-generate default item barcodes when no item barcode is present	True/False	
Vandelay Generate Default Call Numbers	Auto-generate default item call numbers when no item call number is present	True/False	These are pulled from the MARC Record.

Data Types

Acceptable formats for each setting type are listed below. Quotation marks are never required when updating settings in the staff client.

Table 71.16. Data Types in the Library Settings Editor

Data type	Formatting
True/False	Boolean True/False drop down
Number	Enter a numerical value (decimals allowed in price settings)
Duration	Enter a number followed by a space and any of the following units: minutes, hours, days, months (30 minutes, 2 days, etc)
Selection list	Choose from a drop-down list of options (e.g. copy status, copy location)

Data type	Formatting
Text	Free text

Chapter 72. Address Alert

The Address Alert module gives administrators the ability to notify staff with a custom message when addresses with certain patterns are entered in patron records.

This feature only serves to provide pertinent information to your library system's circulation staff during the registration process. An alert will not prevent the new patron account from being registered and the information will not be permanently associated with the patron account.

To access the Address Alert module, select Admin → Local Administration → Address Alerts.



You must have Local Administrator permissions or ADMIN_ADDRESS_ALERT permission to access the Address Alert module.

General Usage Examples

- Alert staff when an address for a large apartment is entered to prompt them to ask for unit number.
- Alert staff when the address of a hotel or other temporary housing is entered.
- Alert staff when an address for a different country is entered.
- Alert staff when a specific city or zip code is entered if that city or zip code needs to be handled in a special way. If you have a neighboring city that you don't have a reciprocal relationship with, you could notify staff that a fee card is required for this customer.

Access Control and Scoping

Each address alert is tied to an Org Unit and will only be matched against staff client instances of that Org Unit and its children.

When viewing the address alerts you will only see the alerts associated with the specific org unit selected in the "Context Org Unit" selection box. You won't see alerts associated with parent org units, so the list of alerts isn't a list of all alerts that may effect your org unit, only of the ones that you can edit.

The specific permission that controls access to configuring this feature is ADMIN_ADDRESS_ALERT. Local Administrator level users will already have this permission. It is possible for the Local Administrator to grant this permission to other staff.

Adding a new Address Alert

How to add an address to the alert list:

1. Log into the Evergreen Staff Client using a Local Administrator account or another account that has been granted the proper permission.
2. Click on Admin → Local Administration → Address Alerts.
3. Click "New Address Alert."
4. A form will open with the following fields to fill out:

Table 72.1. New Address Alert Fields

Field	Description
Owner	Which Org Unit owns this alert. Set this to your system or branch.
Active	Check-box that controls if the alert is active or not. Inactive alerts are not processed.
Match All Fields	Check-box that controls if all the fields need to match to trigger the alert (checked), or only at least one field needs to match (unchecked).
Alert Message	Message that will be displayed to staff when this alert is triggered.
Street (1)	Street 1 field regular expression.
Street (2)	Street 2 field regular expression.
City	City regular expression.
County	County regular expression.
State	State regular expression.
Country	County regular expression.
Postal Code	Postal Code regular expression.
Address Alert ID	Displays the internal database id for alert after the alert has been saved.
Billing Address	Check-box that specifies that the alert will only match a billing address if checked.
Mailing Address	Check-box that specifies that the alert will only match a mailing address if checked.

5. Click save once you have finished.

Editing an Address Alert

To make changes to an existing alert, double click on the alert in the list. The editing form will appear, make your changes and click save or cancel when you are done.

If you don't see your alerts, make sure the "Context Org Unit" selection box has the correct Org Unit selected.

Deleting an Address Alert

To delete an alert or many alerts, click the selection check-box for all alerts you would like to delete. Then click the "Delete Selected" button at the top of the screen.

Staff View of Address Alerts

When an Address Alert is triggered by a matching address the staff will see the address block highlighted with a red dashed line, along with an "Address Alert" block which contains the alert message.

Here is an example of what staff would see.

The screenshot displays a form with two address blocks. The top block is for a mailing address, with fields for Country (USA), Valid Address? (checked), Within City Limits? (checked), Address (Mailing selected), Type (MAILING), Postal Code (12345), Street (1) (123 example street), Street (2) (empty), City (springfield), County (Newclear), State (CO), and Country (highlighted in yellow with a warning icon). A red dashed box highlights this entire block. To the right, a red dashed box contains the text "Address Alert" in red, followed by "Address Alert Triggered - Please note!". A red arrow points from the "Address Alert" text to the mailing address block, and another red arrow points from the mailing address block to the "Address Alert" text.

Regular Expressions / Wildcards

All of the patterns entered to match the various address fields are evaluated as case-insensitive regular expressions by default.



Address Alerts use POSIX Regular Expressions included in the PostgreSQL database engine. See the PostgreSQL documentation for full details.

If you want to do a case-sensitive match you need to prepend the pattern with "(?c)"

The simplest regular expression that acts as a wildcard is ".*", that matches any type of character zero or more times.

Examples

Apartment address. Match an apartment address to prompt for unit number.

1. Choose Owner Org Unit.
2. Active = Checked
3. Match All Fields = Checked
4. Alert Message = "This is a large apartment building, Please ask customer for unit number."
5. Street (1) = "1212 Evergreen Lane.*"
6. City = "mytown"

All addresses on street. Match all addresses on a certain street. Matches ave and avenue because of ending wildcard.

1. Choose Owner Org Unit.
2. Active = Checked
3. Match All Fields = Checked
4. Alert Message = "This street is in a different county, please setup reciprocal card."
5. Street (1) = ".* Evergreen Ave.*"
6. City = "mytown"

Match list of cities. Match several different cities with one alert. Could be used if certain cities don't have reciprocal agreements. Note the use of parentheses and the | character to separate the different options.

1. Choose Owner Org Unit.
2. Active = Checked
3. Match All Fields = Checked
4. Alert Message = "Customer must purchase a Fee card."
5. City = "(Emeryville|San Jose|San Francisco)"

Development

Links to resources with more information on how and why this feature was developed and where the various source files are located.

- Launchpad ticket for the feature request and development of address alerts - <https://bugs.launchpad.net/evergreen/+bug/898248>

Chapter 73. Barcode Completion

The Barcode Completion feature gives users the ability to only enter the unique part of patron and item barcodes. This can significantly reduce the amount of typing required for manual barcode input. This feature was also known as Lazy Circ at one point.

This feature can also be used if there is a difference between what the barcode scanner outputs and what is stored in the database, as long as the barcode that is stored has more characters than what the scanner is outputting. Barcode Completion is additive only, you cannot use it match a stored barcode that has less characters than what is entered. For example, if your barcode scanners previously output a123123b and now exclude the prefix and suffix, you could match both formats using Barcode Completion rules.

Because this feature adds an extra database search for each enabled rule to the process of looking up a barcode, it can add extra delays to the check-out process. Please test in your environment before using in production.

Released: 2.2 - June 2012

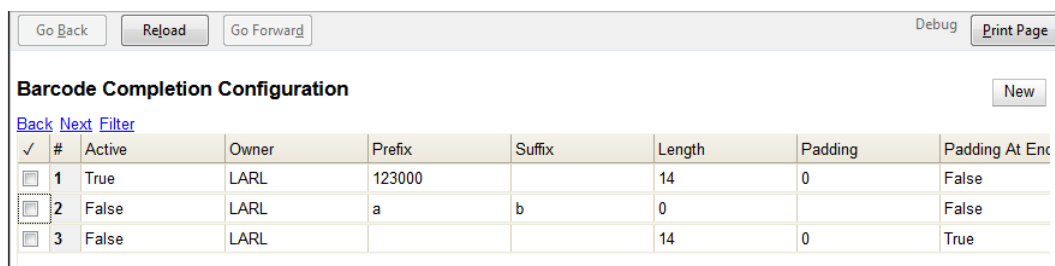
Scoping and Permissions

Local Administrator permission is needed to access the admin interface of the Barcode Completion feature.

Each rule requires an owner org unit, which is how scoping of the rules is handled. Rules are applied for staff users with the same org unit or descendants of that org unit.

Access Points

The admin interface for Barcode Completion is located under Admin → Local Administration → Barcode Completion.



✓	#	Active	Owner	Prefix	Suffix	Length	Padding	Padding At Enc
<input type="checkbox"/>	1	True	LARL	123000		14	0	False
<input type="checkbox"/>	2	False	LARL	a	b	0		False
<input type="checkbox"/>	3	False	LARL			14	0	True

The barcode completion functionality is available at the following interfaces.

For Actors (Users) Barcodes

- Lookup Patron by Barcode/Check Out.

- Optionally during check out if library setting "Load patron from Checkout" is set. (Automatically detects if an actor/user barcode is scanned during check out, and starts a new check out session using that user.)
- OPAC's Staff Client Place Hold.

For Assets (Copy) Barcodes

- Check Out.
- Check In.
- Item Status / Search for copies by Barcode / Show Item Status by Barcode.



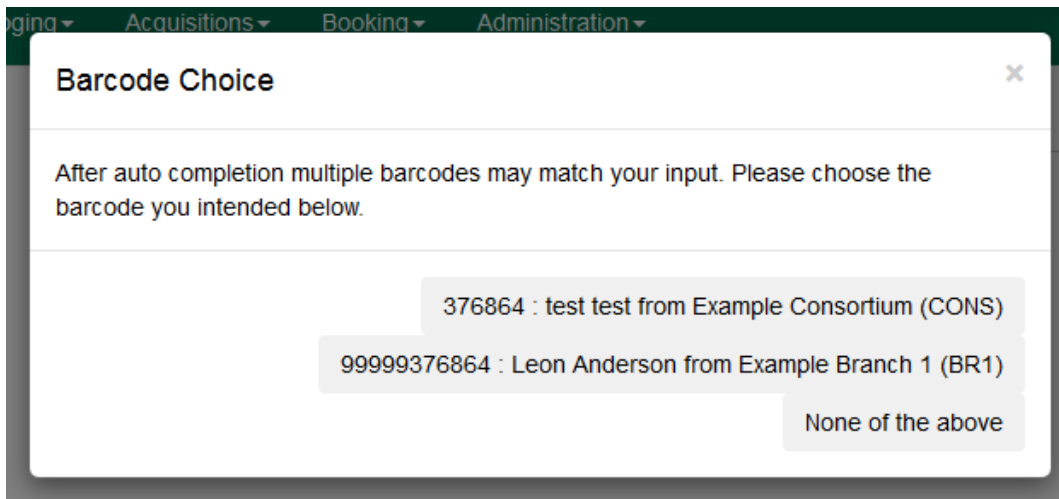
Barcode Completion does not work in the Search for Patron [by Name] interface.

The screenshot displays a library OPAC interface with multiple panes. The top navigation bar includes links for search, Circulation, Cataloging, Acquisitions, and Booking. Below this, there are tabs for Item Status, Catalog, Item Status, Item Check In, Portal, and Portal. The main content area is divided into several sections:

- Patron:** A search form with a text input field and a Submit button.
- Check In or Process:** A section with a search form and a table with columns: Message, Balance Owed, Barcode, Bill #, Checkin Date, and Family Name.
- Item Status:** A section with a search form and a table with columns: Message, Barcode, Call Number, and Due Date.
- Search neil:** A search form with a Keyword dropdown set to 'All Formats' and a search button.
- Place Hold:** A section with two radio buttons:
 - Place hold for patron by barcode:
 - Place this hold for me (Administrator System Account)
- Book Result:** A card for the book "Blueberry girl" by Neil Gaiman, with a small image of the book cover. The text on the card reads: "Blueberry girl", "Gaiman, Neil.", "1 v. (unpaged) : col. ill. ; 13 cm."

Multiple Matches

If multiple barcodes are matched, say if you have both "123" and "00000123" as valid barcodes, you will receive a list of all the barcodes that match all the rules that you have configured. It doesn't stop after the first rule that matches, or after the first valid barcode is found.



Barcode Completion Data Fields

The following data fields can be set for each Barcode Completion rule.

Table 73.1. Barcode Completion Fields

Active	Check to indicate entry is active. Required
Owner	Setting applies to this Org Unit and to all children. Required
Prefix	Sequence that appears at the beginning of barcode.
Suffix	Sequence that appears at the end of barcode.
Length	Total length of barcode.
Padding	Character that pads out non-unique characters in the barcode.
Padding At End	Check if the padding starts at the end of the barcode.
Applies to Items	Check if entry applies to item barcodes.
Applies to Users	Check if entry applies to user barcodes.

Length and Padding. Length and Padding are related, you cannot use one without the other. If a barcode has to be a certain length, then it needs to be able to be padded out to that length. If a barcode has padding, then we need to know the max length that we need to pad out to. If length is set to blank or zero, or padding is left blank then they are both ignored.

Applies to Items/Users. One or both of these options must be checked for the rule to have any effect.

Barcode Completion Configuration

[Back](#) [Next](#) [Filter](#)

Active

Owner

Prefix

Suffix

Length

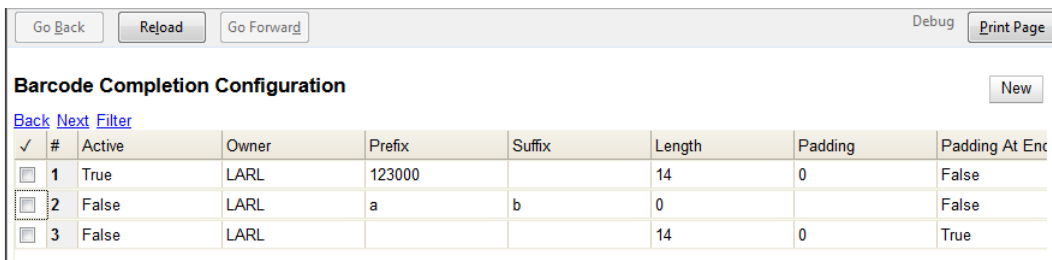
Padding

Padding At End

Applies to Items

Applies to Users

Create, Update, Filter, Delete/Disable Rules



The screenshot shows the Barcode Completion Configuration admin interface. At the top, there are navigation buttons: Go Back, Reload, Go Forward, Debug, and Print Page. Below these is the title "Barcode Completion Configuration" and a "New" button. Underneath is a table with columns: #, Active, Owner, Prefix, Suffix, Length, Padding, and Padding At End. The table contains three rows of data.

✓	#	Active	Owner	Prefix	Suffix	Length	Padding	Padding At End
<input type="checkbox"/>	1	True	LARL	123000		14	0	False
<input type="checkbox"/>	2	False	LARL	a	b	0		False
<input type="checkbox"/>	3	False	LARL			14	0	True

In the Barcode Completion admin interface at Admin → Local Administration → Barcode Completion you can create, update and disable rules.

Create Rules

To create a new rule click on the New button in the upper right corner. When you are done with editing the new rule click the Save button. If you want to cancel the new rule creation click the Cancel button.

Update Rules

To edit a rule double click on the rule in the main list.

Filter Rules

It may be useful to filter the rules list if there are a large number of rules. Click on the filter link to bring up the Filter Results dialog box. You can filter on any of the data fields and you can setup multiple filter rules. Click Apply to enable the filter rules, only the rows that match will now be displayed.

To clear out the filter rules, delete all of the filter rules by clicking the X next to each rule, and then click Apply.

Delete/Disable Rules

It isn't possible to delete a rule from the database from the admin interface. If a rule is no longer needed set Active to "False" to disable it. To keep the number of rules down, reuse inactive rules when creating new rules.

Examples

In all these examples, the unique part of the barcode is 123. So that is all that users will need to type to match the full barcode.

Barcode With Prefix and Padding

Barcode: 4545000123

To match this 10 character barcode by only typing in 123 we need the following settings.

- Active - Checked
- Owner - Set to your org unit.
- Prefix - 4545 - This is the prefix that the barcode starts with.
- Length - 10 - Total length of the barcode.
- Padding - 0 - Zeros will be used to pad out non significant parts of the barcode.
- Applies to Items and/or Applies to Users - Checked

The system takes the 123 that you entered and adds the prefix to the beginning of it. Then adds zeros between the prefix and your number to pad it out to 10 characters. Then it searches the database for that barcode.

Barcode With Suffix

Barcode: 123000book

To match this 10 character barcode by only typing in 123 we need the following settings.

- Active - Checked
- Owner - Set to your org unit.
- Suffix - book - This is the suffix that the barcode ends with.
- Length - 10 - Total length of the barcode.
- Padding - 0 - Zeros will be used to pad out non significant parts of the barcode.
- Padding at End - Checked
- Applies to Items and/or Applies to Users - Checked

The system takes the 123 that you entered and adds the suffix to the end of it. Then adds zeros between your number and the suffix to pad it out to 10 characters. Then it searches the database for that barcode.

Barcode With Left Padding

Barcode: 0000000123

To match this 10 character barcode by only typing in 123 we need the following settings.

- Active - Checked
- Owner - Set to your org unit.
- Length - 10 - Total length of the barcode.
- Padding - 0 - Zeros will be used to pad out non significant parts of the barcode.
- Applies to Items and/or Applies to Users - Checked

The system takes the 123 that you entered, then adds zeros between your number and the left to pad it out to 10 characters. Then it searches the database for that barcode.

Barcode With Right Padding

Barcode: 1230000000

To match this 10 character barcode by only typing in 123 we need the following settings.

- Active - Checked
- Owner - Set to your org unit.
- Length - 10 - Total length of the barcode.
- Padding - 0 - Zeros will be used to pad out non significant parts of the barcode.
- Padding at End - Checked

- Applies to Items and/or Applies to Users - Checked

The system takes the 123 that you entered, then adds zeros between your number and the right to pad it out to 10 characters. Then it searches the database for that barcode.

Barcode of any Length with Prefix and Suffix

Barcode: a123b

To match this 5 character barcode by only typing in 123 we need the following settings. This use of Barcode Completion doesn't save many keystrokes, but it does allow you to handle the case where your barcode scanners at one point were set to output a prefix and suffix which was stored in the database. Now your barcode scanners no longer include the prefix and suffix. These settings will simply add the prefix and suffix to any barcode entered and search for that.

- Active - Checked
- Owner - Set to your org unit.
- Length/Padding - 0/null - Set the length to 0 and/or leave the padding blank.
- Prefix - a - This is the prefix that the barcode starts with.
- Suffix - b - This is the suffix that the barcode starts with.
- Applies to Items and/or Applies to Users - Checked

The system takes the 123 that you entered, then adds the prefix and suffix specified. Then it searches the database for that barcode. Because no length or padding was entered, this rule will add the prefix and suffix to any barcode that is entered and then search for that valid barcode.

Testing

To test this feature, setup the rules that you want, then setup items/users with barcodes that should match. Then try scanning the short version of those barcodes in the various supported access points.

Chapter 74. Hold-driven recalls

Added in Evergreen 2.1

In academic libraries, it is common for groups like faculty and graduate students to have extended loan periods (for example, 120 days), while others have more common loan periods such as 3 weeks. In these environments, it is desirable to have a hold placed on an item that has been loaned out for an extended period to trigger a recall, which:

1. Truncates the loan period
2. Sets the remaining available renewals to 0
3. Optionally: Changes the fines associated with overdues for the new due date
4. Optionally: Notifies the current patron of the recall, including the new due date and fine level

Enabling hold-driven recalls

By default, holds do not trigger recalls. To enable hold-driven recalls of circulating items, library settings must be changed as follows:

1. Click Admin → Local Administration → Library Settings Editor.
2. Set the Recalls: Circulation duration that triggers a recall (recall threshold) setting. The recall threshold is specified as an interval (for example, "21 days"); any items with a loan duration of less than this interval are not considered for a recall.
3. Set the Recalls: Truncated loan period (return interval) setting. The return interval is specified as an interval (for example, "7 days"). The due date on the recalled item is changed to be the greater of either the recall threshold or the return interval.
4. Optionally: Set the Recalls: An array of fine amount, fine interval, and maximum fine setting. If set, this applies the specified fine rules to the current circulation period for the recalled item.

When a hold is placed and no available copies are found by the hold targeter, the recall logic checks to see if the recall threshold and return interval settings are set; if so, then the hold targeter checks the currently checked-out copies to determine if any of the currently circulating items at the designated pickup library have a loan duration longer than the recall threshold. If so, then the eligible item with the due date nearest to the current date is recalled.

Editing the item recall notification email template

The template for the item recall notification email is contained in the Item Recall Email Notice template, found under Admin → Local Administration → Notifications / Action Triggers.

Chapter 75. Notifications / Action Triggers

Action Triggers give administrators the ability to set up actions for specific events. They are useful for notification events such as hold notifications.

To access the Action Triggers module, select Admin → Local Administration → Notifications / Action triggers.



You must have Local Administrator permissions to access the Action Triggers module.

You will notice four tabs on this page: [Event Definitions](#), [Hooks](#), [Reactors](#) and [Validators](#).

Event Definitions

Event Definitions is the main tab and contains the key fields when working with action triggers. These fields include:

Table 1: Action Trigger Event Definitions

Field	Description
Owning Library	The shortname of the library for which the action / trigger / hook is defined.
Name	The name of the trigger event, that links to a trigger event environment containing a set of fields that will be returned to the Validators and/or Reactors for processing.
Hook	The name of the trigger for the trigger event. The underlying <code>action_trigger.hook</code> table defines the Fieldmapper class in the <code>core_type</code> column off of which the rest of the field definitions “hang”.
Enabled	Sets the given trigger as enabled or disabled. This must be set to enabled for the Action trigger to run.
Processing Delay	Defines how long after a given trigger / hook event has occurred before the associated action (“Reactor”) will be taken.
Processing Delay Context Field	Defines the field associated with the event on which the processing delay is calculated. For example, the processing delay context field on the <code>hold.capture</code> hook (which has a <code>core_type</code> of <code>ahr</code>) is <code>capture_time</code> .
Processing Group Context Field	Used to batch actions based on its associated group.

<u>Reactor</u>	Links the action trigger to the Reactor.
<u>Validator</u>	The subroutines receive the trigger environment as an argument (see the linked Name for the environment definition) and returns either 1 if the validator is true or 0 if the validator returns false.
Event Repeatability Delay	Allows events to be repeated after this delay interval.
Failure Cleanup	After an event is reacted to and if there is a failure a cleanup module can be run to clean up after the event.
Granularity	Used to group events by how often they should be run. Options are Hourly, Daily, Weekly, Monthly, Yearly, but you may also create new values.
Max Event Validity Delay	Allows events to have a range of time that they are valid. This value works with the Processing Delay to define a time range.
Opt-In Settings Type	Choose which User Setting Type will decide if this event will be valid for a certain user. Use this to allow users to Opt-In or Opt-Out of certain events.
Opt-In User Field	Set to the name of the field in the selected hook's core type that will link the core type to the actor.user table.
Success Cleanup	After an event is reacted to successfully a cleanup module can be run to clean up after the event.
Template	A Template Toolkit template that can be used to generate output. The output may or may not be used by the reactor or another external process.

Creating Action Triggers

1. From the top menu, select Admin → Local Administration → Notifications / Action triggers.
2. Click on the New button.
3. Select an Owning Library.
4. Create a unique Name for your new action trigger.
5. Select the Hook.
6. Check the Enabled check box.
7. Set the Processing Delay in the appropriate format. E.g. 7 days to run 7 days from the trigger event or 00:01:00 to run 1 hour after the Processing Delay Context Field.
8. Set the Processing Delay Context Field and Processing Group Context Field.
9. Select the Reactor, Validator, Failure Cleanup.
10. Select the Granularity.

11Set the Max Event Validity Delay.

12Select the Opt-In Setting Type.

13Set the Opt-In User Field.

14Select the Success Cleanup.

15Enter text in the Template text box if required. These are for email messages. Here is a sample template for sending 90 day overdue notices:

```
[%- USE date -%]  
[%- user = target.0.usr -%]  
To: [%- params.recipient_email || user.email %]  
From: [%- helpers.get_org_setting(target.home_ou.id, 'org.bounced_emails') || lib.email ||  
params.sender_email || default_sender %]  
Subject: Overdue Items Marked Lost  
Auto-Submitted: auto-generated
```

```
Dear [% user.family_name %], [% user.first_given_name %]  
The following items are 90 days overdue and have been marked LOST.  
[%- params.recipient_email || user.email %][%- params.sender_email || default_sender %]  
[% FOR circ IN target %]  
  Title: [% circ.target_copy.call_number.record.simple_record.title %]  
  Barcode: [% circ.target_copy.barcode %]  
  Due: [% date.format(helpers.format_date(circ.due_date), '%Y-%m-%d') %]  
  Item Cost: [% helpers.get_copy_price(circ.target_copy) %]  
  Total Owed For Transaction: [% circ.billable_transaction.summary.total_owed %]  
  Library: [% circ.circ_lib.name %]  
[% END %]
```

```
[% FOR circ IN target %]  
  Title: [% circ.target_copy.call_number.record.simple_record.title %]  
  Barcode: [% circ.target_copy.barcode %]  
  Due: [% date.format(helpers.format_date(circ.due_date), '%Y-%m-%d') %]  
  Item Cost: [% helpers.get_copy_price(circ.target_copy) %]  
  Total Owed For Transaction: [% circ.billable_transaction.summary.total_owed %]  
  Library: [% circ.circ_lib.name %]  
[% END %]
```

16Once you are satisfied with your new event trigger, click the Save button located at the bottom of the form.



A quick and easy way to create new action triggers is to clone an existing action trigger.

Cloning Existing Action Triggers

1. Check the check box next to the action trigger you wish to clone.
2. Click Clone Selected on the top left of the page.
3. An editing window will open. Notice that the fields will be populated with content from the cloned action trigger. Edit as necessary and give the new action trigger a unique Name.
4. Click Save.

Editing Action Triggers

1. Double-click on the action trigger you wish to edit.
2. The edit screen will appear. When you are finished editing, click Save at the bottom of the form. Or click Cancel to exit the screen without saving.



Before deleting an action trigger, you should consider disabling it through the editing form. This way you can keep it for future use or cloning.

Deleting Action Triggers

1. Check the check box next to the action trigger you wish to delete
2. Click Delete Selected on the top-right of the page.

Hooks

Hooks define the Fieldmapper class in the `core_type` column off of which the rest of the field definitions “hang”.

Table 2. Hooks

Field	Description
Hook Key	A unique name given to the hook.
Core Type	Used to link the action trigger to the IDL class in <code>fm_IDL.xml</code>
Description	Text to describe the purpose of the hook.
Passive	Indicates whether or not an event is created by direct user action or is circumstantial.

You may also create, edit and delete Hooks but the Core Type must refer to an IDL class in the `fm_IDL.xml` file.

Reactors

Reactors link the trigger definition to the action to be carried out.

Table 3. Action Trigger Reactors

Field	Description
-------	-------------

Module Name	The name of the Module to run if the action trigger is validated. It must be defined as a subroutine in <code>/openils/lib/perl5/OpenILS/Application/Trigger/Reactor.pm</code> or as a module in <code>/openils/lib/perl5/OpenILS/Application/Trigger/Reactor/*.pm</code> .
Description	Description of the Action to be carried out.

You may also create, edit and delete Reactors. Just remember that there must be an associated subroutine or module in the Reactor Perl module.

Validators

Validators set the validation test to be performed to determine whether the action trigger is executed.

Table 4. Action Trigger Validators

Field	Description
Module Name	The name of the subroutine in <code>/openils/lib/perl5/OpenILS/Application/Trigger/Reactor.pm</code> to validate the action trigger.
Description	Description of validation test to run.

You may also create, edit and delete Validators. Just remember that their must be an associated subroutine in the Reactor.pm Perl module.

Processing Action Triggers

To run the action triggers, an Evergreen administrator will need to run the trigger processing script. This should be set up as a cron job to run periodically. To run the script, use this command:

```
/openils/bin/action_trigger_runner.pl --process-hooks --run-pending
```

You have several options when running the script:

- `--run-pending`: Run pending events to send emails or take other actions as specified by the reactor in the event definition.
- `--process-hooks`: Create hook events
- `--osrf-config=[config_file]`: OpenSRF core config file. Defaults to: `/openils/conf/opensrf_core.xml`
- `--custom-filters=[filter_file]`: File containing a JSON Object which describes any hooks that should use a user-defined filter to find their target objects. Defaults to: `/openils/conf/action_trigger_filters.json`
- `--max-sleep=[seconds]`: When in process-hooks mode, wait up to [seconds] for the lock file to go away. Defaults to 3600 (1 hour).

- `--hooks=hook1[,hook2,hook3,...]`: Define which hooks to create events for. If none are defined, it defaults to the list of hooks defined in the `--custom-filters` option. Requires `--process-hooks`.
- `--granularity=[label]`: Limit creating events and running pending events to those only with `[label]` granularity setting.
- `--debug-stdout`: Print server responses to STDOUT (as JSON) for debugging.
- `--lock-file=[file_name]`: Sets the lock file for the process.
- `--verbose`: Show details of script processing.
- `--help`: Show help information.

Examples:

- Run all pending events that have no granularity set. This is what you tell CRON to run at regular intervals.

```
perl action_trigger_runner.pl --run-pending
```

- Batch create all "checkout.due" events

```
perl action_trigger_runner.pl --hooks=checkout.due --process-hooks
```

- Batch create all events for a specific granularity and to send notices for all pending events with that same granularity.

```
perl action_trigger_runner.pl --run-pending --granularity=Hourly --process-hooks
```


Chapter 76. Recent Staff Searches

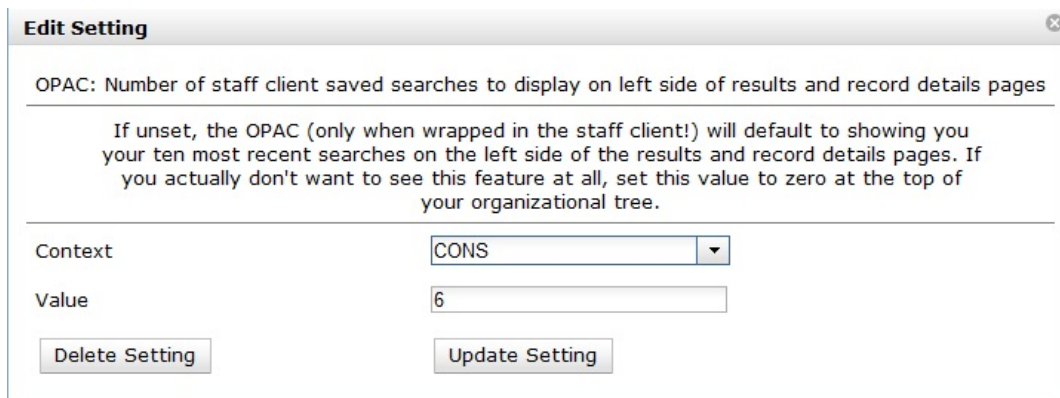
This feature enables you to view your recent searches as you perform them in the staff client. The number of searches that you can view is configurable. This feature is only available through the staff client; it is not available to patrons in the OPAC.

Administrative Settings

By default, ten searches will be saved as you search the staff client. If you want to change the number of saved searches, then you can configure the number of searches that you wish to save through the Library Settings Editor in the Admin module.

To configure the number of recent staff searches:

1. Click Admin → Local Administration → Library Settings Editor.
2. Scroll to OPAC: Number of staff client saved searches to display on left side of results and record details pages
3. Click Edit.
4. Select a Context from the drop down menu.
5. Enter the number of searches that you wish to save in the Value field.
6. Click Update Setting



Edit Setting

OPAC: Number of staff client saved searches to display on left side of results and record details pages

If unset, the OPAC (only when wrapped in the staff client!) will default to showing you your ten most recent searches on the left side of the results and record details pages. If you actually don't want to see this feature at all, set this value to zero at the top of your organizational tree.

Context: CONS

Value: 6

Delete Setting Update Setting



To retain this setting, the system administrator must restart the web server.

If you do not want to save any searches, then you can turn off this feature.

To deactivate this feature:

1. Follow steps 1-4 (one through four) as listed in the previous section.

2. In the value field, enter 0 (zero).
3. Click Update Setting. This will prevent you from viewing any saved searches.

Recent Staff Searches

Evergreen will save staff searches that are entered through either the basic or advanced search fields. To view recent staff searches:

1. Enter a search term in either the basic or advanced search fields.
2. Your search results for the current search will appear in the middle of the screen. The most recent searches will appear on the left side of the screen.

Search the Catalog [Advanced Search](#)

Search for in

[\[Click to Refine Your Original Search \]](#)

[Another Search](#) [Advanced Search](#) Sort by [Detailed View](#)

Search Results Results 1 - 10 of 11 (page 1 of 2)

Your recent searches:

- [bread](#)
- [spaghetti](#)
- [cooking](#)
- [recipe](#)
- [dog](#)
- [rain](#)

1.  [Retro kids cooking :](#)
[Perry, Richard.](#) c2004.
Call number: ACQ14
0 of 1 copy available
2.  [Retro kids cooking :](#)
[Perry, Richard.](#) c2004.
0 of 0 copies available

Chapter 77. Standing Penalties

In versions of Evergreen prior to 2.3, the following penalty types were available by default. When applied to user accounts, these penalties prevented users from completing the following actions:

- CIRC - Users cannot check out items
- HOLD - Users cannot place holds on items
- RENEW - Users cannot renew items

In version 2.3, two new penalty types are available in Evergreen:

- CAPTURE - This penalty prevents a user's holds from being captured. If the HOLD penalty has not been applied to a user's account, then the patron can place a hold, but the targeted item will not appear on a pull list and will not be captured for a hold if it is checked in.
- FULFILL - This penalty prevents a user from checking out an item that is on hold. If the HOLD and CAPTURE penalties have not been applied to a user's account, then the user can place a hold on an item, and the item can be captured for a hold. However, when he tries to check out the item, the circulator will see a pop up box with the name of the penalty type, FULFILL. The circulator must correct the problem with the account or must override the penalty to check out the item.

Chapter 78. Statistical Categories Editor

This is where you configure your statistical categories (stat cats). Stat cats are a way to save and report on additional information that doesn't fit elsewhere in Evergreen's default records. It is possible to have stat cats for copies or patrons.

1. Click Admin → Local Administration → Statistical Categories Editor.
2. To create a new stat cat, enter the name of the category and select either patron or copy from the Type dropdown menu. Each category type has a number of options you may set.

Copy Statistical Categories

Copy stat cats appear in the Copy Editor, also known as the Edit Item Attributes screen. You might use copy stat cats to track books you have bought from a specific vendor, or donations.

An example of the Create a new statistical category controls for copies:

Statistical Category Editor				Welcome egadmin			
Create a new statistical category							
Enter the name:	<input type="text"/>	Owning Library:	<input type="text" value="CONS"/>				
OPAC Visibility:	<input type="radio"/> On <input checked="" type="radio"/> Off	Type:	<input type="text" value="Copy"/>				
Required:	<input type="radio"/> On <input checked="" type="radio"/> Off	Archive with Circs	<input type="radio"/> On <input checked="" type="radio"/> Off				
SIP Field:	<input type="text" value="No SIP Export"/>	SIP Format:	<input type="text"/>				
<input type="button" value="Create new statistical category"/>							

- OPAC Visibility: Should the category be displayed in the OPAC?
- Required: Must the category be assigned a value when editing the item attributes?
- Archive with Circs: Should the category and its values for the copy be archived with aged circulation data?
- SIP Field: Select the SIP field identifier that will contain the category and its value
- SIP Format: Specify the SIP format string

Some sample copy stat cats:

Focus Location:

[Copy Statistical Categories](#) [Patron Statistical Categories](#)

* To edit or view information about an entry, click on the entry in the drop-down menu
 ** Some sip fields may only be valid on one stat cat. Entries using them may not save.

Statistical Category Name	Owning Library	OPAC Visibility	Required	SIP Field	SIP Format	Circ Archive	Entries	Add Entry	Edit
Gift Item	Example Consortium	Off	Off	No SIP		Off	<input type="text" value="No"/>	Add	Edit
Kids Books	Example Consortium	Off	Off	No SIP		Off	<input type="text" value="(none)"/>	Add	Edit
Vendor	Example Consortium	Off	Off	No SIP		Off	<input type="text" value="Amazon"/>	Add	Edit

To add an entry, select Add. To edit an entry, select the entry you wish to edit from the drop-down list for the category.

This is how the copy stat cats appear in the Copy Editor:

Copy Editor						
Templates: ▾	Apply	Delete	Import	Export	Save	Reset
Identification	Location (1)	Circulation (2)	Miscellaneous (3)	Statistics (4)		
Status In process 1 copy	Location/Collection Stacks 1 copy	Circulate? Yes 1 copy	Alert Message <Unset> 1 copy	Library Filter CONS : Gift Item 1 copy		
Barcode 9999999 1 copy	Circulation Library BR1 1 copy	Holdable? Yes 1 copy	Deposit? No 1 copy	CONS : Kids Books <Unset> 1 copy		
Creation Date 1 copy	Owning Lib : Call Number BR1 : 814 1 copy	Age-based Hold Protection <Unset> 1 copy	Deposit Amount 0.00 1 copy	CONS : Vendor <Unset> 1 copy		
Active Date 1 copy	Copy Number <Unset> 1 copy	Floating? <Unset> 1 copy	Price 0.00 1 copy			

Patron Statistical Categories

Patron stat cats can be used to keep track of information such as the high school a patron attends, or the home library for a consortium patron, e.g. Interlink, or patron preferences. They appear in the fifth section of the Patron Registration or Edit Patron screen.

An example of the Create a new statistical category controls for patrons:

Statistical Category Editor				Welcome egadmin
Create a new statistical category				
Enter the name:	<input type="text"/>	Owning Library:	CONS ▾	
OPAC Visibility:	On <input type="radio"/> Off <input checked="" type="radio"/>	Type:	Patron ▾	
Required:	On <input type="radio"/> Off <input checked="" type="radio"/>	Archive with Circs	On <input type="radio"/> Off <input checked="" type="radio"/>	
Allow Free Text:	On <input checked="" type="radio"/> Off <input type="radio"/>	Show in Summary:	On <input type="radio"/> Off <input checked="" type="radio"/>	
SIP Field:	No SIP Export ▾	SIP Format:	<input type="text"/>	
Create new statistical category				

- OPAC Visibility: Should the category be displayed in the OPAC?
- Required: Must the category be assigned a value when registering a new patron or editing an existing one?
- Archive with Circs: Should the category and its values for the patron be archived with aged circulation data?
- Allow Free Text: May the person registering/editing the patron information supply their own value for the category?
- Show in Summary: Display the category and its value in the patron summary view?
- SIP Field: Select the SIP field identifier that will contain the category and its value
- SIP Format: Specify the SIP format string



WARNING

If you make a category required and also disallow free text, make sure that you populate an entry list for the category so that the user may select a value. Failure to do so will result in an unsubmittable patron registration/edit form!

Some sample patron stat cats:

Focus Location: BR1

[Copy Statistical Categories](#)

[Patron Statistical Categories](#)

* To edit or view information about an entry, click on the entry in the drop-down menu
** Some sip fields may only be valid on one stat cat. Entries using them may not save.

Statistical Category Name	Owning Library	OPAC Visibility	Required	Show in Summary	Allow Free Text	SIP Field	SIP Format	Circ Archive	Entries	Add Entry	Edit
High School	Example System 1	Off	Off	Off	Off	No SIP		Off	West High School*	Add	Edit
Preferred Library	Example System 1	Off	Off	Off	Off	No SIP		Off	Main Library	Add	Edit
Preferred Transportation	Example Consortium	Off	Off	Off	On	No SIP		Off	(none)	Add	Edit
Proof of residence document	Example Branch 1	Off	On	Off	On	No SIP		Off	(none)	Add	Edit
Provide due date slip	Example Consortium	Off	On	Off	Off	No SIP		Off	No*	Add	Edit

To add an entry, click on Add in the category row under the Add Entry column:

Statistical Category Name	Owning Library	OPAC Visibility	Required	Show in Summary	Allow Free Text	SIP Field	SIP Format	Circ Archive	Entries	Add Entry	Edit
High School	Example System 1	Off	Off	Off	Off	No SIP		Off	West High School*	Add	Edit

Enter the value of the new entry: Default entry for

To edit an entry, select the entry you wish to edit from the drop-down list for the category:

Statistical Category Name	Owning Library	OPAC Visibility	Required	Show in Summary	Allow Free Text	SIP Field	SIP Format	Circ Archive	Entries	Add Entry	Edit
High School	Example System 1	Off	Off	Off	Off	No SIP		Off	Central High School	Add	Edit

Owned By **Example Branch 1** Default entry for

An organizational unit (consortium, library system branch library, sub library, etc.) may create their own categories and entries, or supplement categories defined by a higher-level org unit with their own entries.

An entry can be set as the default entry for a category and for an org unit. If an entry is set as the default, it will be automatically selected in the patron edit screen, provided no other value has been previously set for the patron. Only one default may be set per category for any given org unit.

Lower-level org unit defaults override defaults set for higher-level org units; but in the absence of a default set for a given org unit, the nearest parent org unit default will be selected.

Default entries for the focus location org unit are marked with an asterisk in the entry dropdowns.

This is how patron stat cats appear in the patron registration/edit screen:

Statistical Categories	
High School	West High School ▼
Preferred Library	▼
Preferred Transportation	▼
Proof of residence document	▼
Provide due date slip	No ▼

Chapter 79. Statistical Popularity Badges

Statistical Popularity Badges allow libraries to set popularity parameters that define popularity badges, which bibliographic records can earn if they meet the set criteria. Popularity badges can be based on factors such as circulation and hold activity, bibliographic record age, or material type. The popularity badges that a record earns are used to adjust catalog search results to display more popular titles (as defined by the badges) first. Within the OPAC there are two new sort options called "Most Popular" and "Popularity Adjusted Relevance" which will allow users to sort records based on the popularity assigned by the popularity badges.

Popularity Rating and Calculation

Popularity badge parameters define the criteria a bibliographic record must meet to earn the badge, as well as which bibliographic records are eligible to earn the badge. For example, the popularity parameter "Circulations Over Time" can be configured to create a badge that is applied to bibliographic records for DVDs. The badge can be configured to look at circulations within the last 2 years, but assign more weight or popularity to circulations from the last 6 months.

Multiple popularity badges may be applied to a bibliographic record. For each applicable popularity badge, the record will be rated on a scale of 1-5, where a 5 indicates the most popular. Evergreen will then assign an overall popularity rating to each bibliographic record by averaging all of the popularity badge points earned by the record. The popularity rating is stored with the record and will be used to rank the record within search results when the popularity badge is within the scope of the search. The popularity badges are recalculated on a regular and configurable basis by a cron job. Popularity badges can also be recalculated by an administrator directly on the server.

Creating Popularity Badges

There are two main types of popularity badges: point-in-time popularity (PIT), which looks at the popularity of a record at a specific point in time—such as the number of current circulations or the number of open hold requests; and temporal popularity (TP), which looks at the popularity of a record over a period of time—such as the number of circulations in the past year or the number of hold requests placed in the last six months.

The following popularity badge parameters are available for configuration:

- Holds Filled Over Time (TP)
- Holds Requested Over Time (TP)
- Current Hold Count (PIT)
- Circulations Over Time (TP)
- Current Circulation Count (PIT)
- Out/Total Ratio (PIT)

- Holds/Total Ratio (PIT)
- Holds/Holdable Ratio (PIT)
- Percent of Time Circulating (Takes into account all circulations, not specific period of time)
- Bibliographic Record Age (days, newer is better) (TP)
- Publication Age (days, newer is better) (TP)
- On-line Bib has attributes (PIT)
- Bib has attributes and copies (PIT)
- Bib has attributes and copies or URIs (PIT)
- Bib has attributes (PIT)

To create a new Statistical Popularity Badge:

1. Go to Administration→Local Administration→Statistical Popularity Badges.
2. Click on Actions→Add badge.
3. Fill out the following fields as needed to create the badge:



only Name, Scope, Weight, Recalculation Interval, Importance Interval, and Discard Value Count are required

- **Name:** Library assigned name for badge. Each name must be unique. The name will show up in the OPAC record display. For example: Most Requested Holds for Books-Last 6 Months. Required field.
- **Description:** Further information to provide context to staff about the badge.
- **Scope:** Defines the owning organization unit of the badge. Badges will be applied to search result sorting when the Scope is equal to, or an ancestor, of the search location. For example, a branch specific search will include badges where the Scope is the branch, the system, and the consortium. A consortium level search, will include only badges where the Scope is set to the consortium. Item specific badges will apply only to records that have items owned at or below the Scope. Required field.
- **Weight:** Can be used to indicate that a particular badge is more important than the other badges that the record might earn. The weight value serves as a multiplier of the badge rating. Required field with a default value of 1.
- **Age Horizon:** Indicates the time frame during which events should be included for calculating the badge. For example, a popularity badge for Most Circulated Items in the Past Two Years would have an Age Horizon of 2 years. The Age Horizon should be entered as a number followed by

day(s), month(s), year(s), such as 6 months or 2 years. Use with temporal popularity (TP) badges only.

- **Importance Horizon:** Used in conjunction with Age Horizon, this allows more recent events to be considered more important than older events. A value of zero means that all events included by the Age Horizon will be considered of equal importance. With an Age Horizon of 2 years, an Importance Horizon of 6 months means that events, such as checkouts, that occurred within the past 6 months will be considered more important than the circulations that occurred earlier within the Age Horizon.
- **Importance Interval:** Can be used to further divide up the timeframe defined by the Importance Horizon. For example, if the Importance Interval is 1 month, Evergreen will combine all of the events within that month for adjustment by the Importance Scale (see below). The Importance Interval should be entered as a number followed by 'day(s), week(s), month(s), year(s), such as 6 months or 2 years. Required field.
- **Importance Scale:** The Importance Scale can be used to assign additional importance to events that occurred within the most recent Importance Interval. For example, if the Importance Horizon is 6 months and the Importance Interval is 1 month, the Importance Scale can be set to 6 to indicate that events that happened within the last month will count 6 times, events that happened 2 months ago will count 5 times, etc. The Importance Scale should be entered as a number followed by day(s), week(s), month(s), year(s), such as 6 months or 2 years.
- **Percentile:** Can be used to assign a badge to only the records that score above a certain percentile. For example, it can be used indicate that you only want to assign the badge to records in the top 5% of results by setting the field to 95. To optimize the popularity badges, percentile should be set between 95-99 to assign a badge to the top 5%-1% of records.
- **Attribute Filter:** Can be used to assign a badge to records that contain a specific Record Attribute. Currently this field can be configured by running a report (see note below) to obtain the JSON data that identifies the Record Attribute. The JSON data from the report output can be copied and pasted into this field. A new interface for creating Composite Record Attributes will be implemented with future development of the web client.
 - To run a report to obtain JSON data for the Attribute Filter, use SVF Record Attribute Coded Value Map as the template Source. For Displayed Fields, add Code, ID, and/or Description from the Source; also display the Definition field from the Composite Definition linked table. This field will display the JSON data in the report output. Filter on the Definition from the Composite Definition linked table and set the Operator to Is not NULL.
- **Circ Mod Filter:** Apply the badge only to items with a specific circulation modifier. Applies only to item related badges as opposed to "bib record age" badges, for example.
- **Bib Source Filter:** Apply the badge only to bibliographic records with a specific source.
- **Location Group Filter:** Apply the badge only to items that are part of the specified Copy Location Group. Applies only to item related badges.
- **Recalculation Interval:** Indicates how often the popularity value of the badge should be recalculated for bibliographic records that have earned the badge. Recalculation is controlled by a cron job. Required field with a default value of 1 month.

- **Fixed Rating:** Can be used to set a fixed popularity value for all records that earn the badge. For example, the Fixed Rating can be set to 5 to indicate that records earning the badge should always be considered extremely popular.
- **Discard Value Count:** Can be used to prevent certain records from earning the badge to make Percentile more accurate by discarding titles that are below the value indicated. For example, if the badge looks at the circulation count over the past 6 months, Discard Value Count can be used to eliminate records that had too few circulations to be considered "popular". If you want to discard records that only had 1-3 circulations over the past 6 months, the Discard Value Count can be set to 3. Required field with a default value of 0.
- **Last Refresh Time:** Displays the last time the badge was recalculated based on the Recalculation Interval.
- **Popularity Parameter:** Types of TP and PIT factors described above that can be used to create badges to assign popularity to bibliographic records.

1. Click OK to save the badge.

New Global Flags

OPAC Default Sort: can be used to set a default sort option for the catalog. Users can always override the default by manually selecting a different sort option while searching.

Maximum Popularity Importance Multiplier: used with the Popularity Adjusted Relevance sort option in the OPAC. Provides a scaled adjustment to relevance score based on the popularity rating earned by bibliographic records. See below for more information on how this flag is used.

Sorting by Popularity in the OPAC

Within the stock OPAC template there is a new option for sorting search results called "Most Popular". Selecting "Most Popular" will first sort the search results based on the popularity rating determined by the popularity badges and will then apply the default "Sort by Relevance". This option will maximize the popularity badges and ensure that the most popular titles appear higher up in the search results.

There is a second new sort option called "Popularity Adjusted Relevance", which can be used to find a balance between popularity and relevance in search results. For example, it can help ensure that records that are popular, but not necessarily relevant to the search, do not supersede records that are both popular and relevant in the search results. It does this by sorting search results using an adjusted version of Relevance sorting. When sorting by relevance, each bibliographic record is assigned a baseline relevance score between 0 and 1, with 0 being not relevant to the search query and 1 being a perfect match. With "Popularity Adjusted Relevance" the baseline relevance is adjusted by a scaled version of the popularity rating assigned to the bibliographic record. The scaled adjustment is controlled by a Global Flag called "Maximum Popularity Importance Multiplier" (MPIM). The MPIM takes the average popularity rating of a bibliographic record (1-5) and creates a scaled adjustment that is applied to the baseline relevance for the record. The adjustment can be between 1.0 and the value set for the MPIM. For example, if the MPIM is set to 1.2, a record with an average

popularity badge score of 5 (maximum popularity) would have its relevance multiplied by 1.2—in effect giving it the maximum increase of 20% in relevance. If a record has an average popularity badge score of 2.5, the baseline relevance of the record would be multiplied by 1.1 (due to the popularity score scaling the adjustment to half way between 1.0 and the MPIM of 1.2) and the record would receive a 10% increase in relevance. A record with a popularity badge score of 0 would be multiplied by 1.0 (due to the popularity score being 0) and would not receive a boost in relevance.

Popularity Badge Example

A popularity badge called "Long Term Holds Requested" has been created which has the following parameters:

Popularity Parameter: Holds Requested Over Time Scope: CONS Weight: 1 (default) Age Horizon: 5 years Percentile: 99 Recalculation Interval: 1 month (default) Discard Value Count: 0 (default)

This popularity badge will rate bibliographic records based on the number of holds that have been placed on it over the past 5 years and will only apply the badge to the top 1% of records (99th percentile).

If a keyword search for harry potter is conducted and the sort option "Most Popular" is selected, Evergreen will apply the popularity rankings earned from badges to the search results.

The screenshot shows an advanced search interface with a green header containing three tabs: "Advanced Search", "Numeric Search", and "Expert Search". Below the header is the "Search Input" section, which includes three search rows. The first row is empty. The second row is highlighted with a red box and contains "And" (dropdown), "Title" (dropdown), "Contains" (dropdown), and "harry potter" (text input). The third row is empty. Below the search rows are "Add Search Row" and "Search" buttons, and a "Clear Form" button. The "Search Filters" section follows, with several filter categories: "Item Type" (Art, Pictures, Images; Audiobooks and Playaway; Books; Books (Manuscripts)), "Item Form" (Braille; Direct electronic; Electronic; Large print), "Language" (Albanian; Arabic; Chinese; English), "Audience" (Adolescent; Adult; General; Juvenile), "Video Format" (8 mm.; Beta; Betacam; Betacam SP), "Bib Level" (empty), and "Literary Form" (Comic strips; Dramas; Essays; Fiction (not further specific)). At the bottom, there are three more filters: "Search Library" (All C/W MARS Libraries), "Publication Year" (Is), and "Sort Results" (Most Popular), with the "Sort Results" dropdown also highlighted by a red box.

Title search: harry potter. Sort by: Most Popular.

Search: Type: Format: Library:

Search

[Refine My Original Search](#)

Another Search **Advanced Search** Sort by **Show More Details** Limit to available items

Group Formats and Editions


Search Results Results 1 - 10 of about 442 (page 1 of 45) [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [Next](#)


Personal Author	More
Rowling, J. K.	(191)
Williams, John 1932-	(7)
Colbert, David	(5)
Granger, John 1961-	(5)
Shapiro, Marc 1949-	(5)


Corporate Author
Harry and the Potters (Musical group)


Topic Subject	More
Wizards	(256)
Magic	(250)
Potter, Harry (Fictitious character)	(239)
Schools	(175)
Hogwarts School of Witchcraft and Wizardry (Imaginary place)	(124)


Series Title	More
Harry Potter	(3)
Harry Potter . 5	(3)
Year ... at Hogwarts . 7	(3)
Coleção Estrela do mar :	(2)

- 

Harry Potter and the goblet of fire
Rowling, J. K.
Large Print Book (2000.)
Popularity: 5.0 / 5.0
Call number: LP ROW
7 of 9 copies available at All C/W MARS Libraries.
[Place Hold](#) [Add to my list](#) [Reviews & More](#)
- 

Harry Potter and the Half-Blood Prince
Rowling, J. K.
Large Print Book (2005.)
Popularity: 5.0 / 5.0
Call number: J FICTION ROW
10 of 10 copies available at All C/W MARS Libraries.
[Place Hold](#) [Add to my list](#) [Reviews & More](#)
- 

Harry Potter and the chamber of secrets
Rowling, J. K.
Large Print Book (2003.)
Popularity: 5.0 / 5.0
Call number: LARGE PRINT FANTASY ROWLING
1 of 3 copies available at All C/W MARS Libraries.
[Place Hold](#) [Add to my list](#) [Reviews & More](#)
- 

Harry Potter and the prisoner of Azkaban
Rowling, J. K.
Large Print Book (2000.)
Popularity: 5.0 / 5.0
Call number: LP ROW
14 of 19 copies available at All C/W MARS Libraries.
[Place Hold](#) [Add to my list](#) [Reviews & More](#)
- 

Harry Potter and the chamber of secrets
Rowling, J. K.

The popularity badge also appears in the bibliographic record display in the catalog. The name of the badge earned by the record and the popularity rating are displayed in the Record Details.

A popularity badge of 5.0/5.0 has been applied to the most popular bibliographic records where the search term "harry potter" is found in the title. In the image above, the popularity badge has identified records from the Harry Potter series by J.K. Rowling as the most popular titles matching the search and has listed them first in the search results.

Current holds

4 current holds with 310 total copies.

Location	Call Number / Copy Notes	Barcode	Shelving Location	Age Hold Protection	Active/Create Date	Holdable?	Status
Adams Free Library	J FIC Rowling (Text)	37431000796627 view edit	Juvenile	None	02/08/2013	Copy hold / Volume hold	Avail
Adams Free Library	J FIC Rowling (Text)	37431000911754 view edit	Juvenile	None	02/08/2013	Copy hold	Avail

Record details

- **ISBN:** 0590353403 (hardcover) :
- **ISBN:** 9780590353403 (hardcover)
- **Physical Description:** vi, 312 p. : ill. ; 24 cm.
- **Edition:** 1st American ed.
- **Publisher:** New York : A.A. Levine Books, 1998.
- **Badges:**
 - Long term holds requested: 5

Content descriptions

General Note: "Year 1"--Spine.
Sequel: Harry Potter and the Chamber of Secrets.

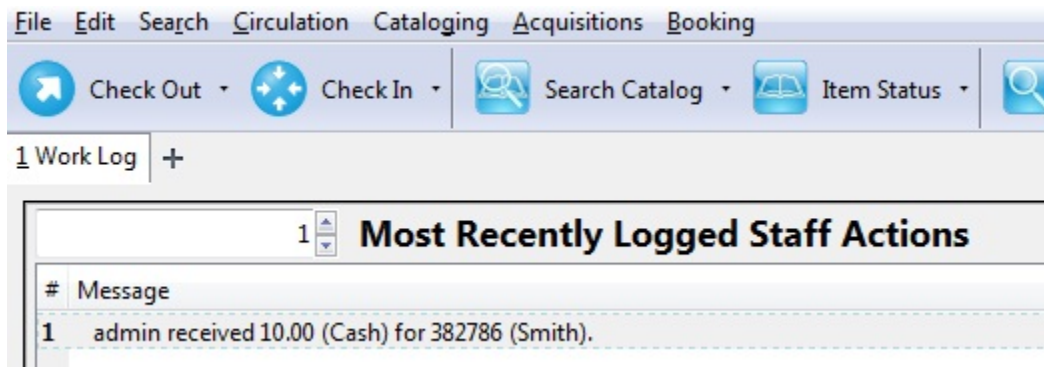
Summary, etc.: Rescued from the outrageous neglect of his aunt and uncle, a young boy with a great destiny proves his worth while attending Hogwarts School for Witchcraft and Wizardry.

Chapter 80. Work Log

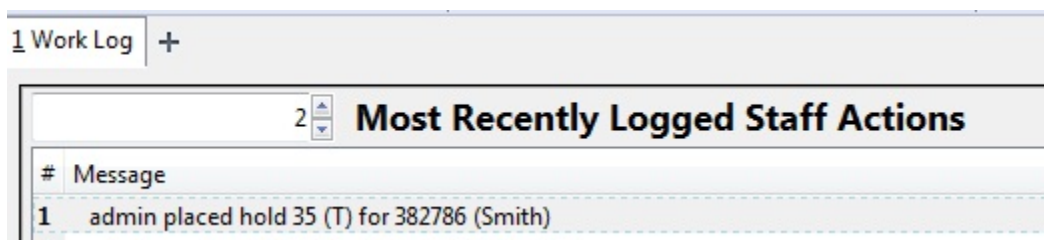
Expanding the Work Log

In versions of Evergreen prior to 2.3, the work log recorded check ins, checkouts, patron registration, patron editing, and renewals. In version 2.3, the work log also records holds that have been placed and payments that have been received.

In this example, a staff member has collected a fine from a patron. To view this action in the work log, click Admin → Local Administration → Work Log. By default, the work log will record the staff member's username, the amount that was received, the payment type, the patron's barcode, and the patron's last name.



In this example, a staff member has placed a hold for a patron. To view this action in the work log, click Admin → Local Administration → Work Log. By default, the work log will record the staff member's username, the hold type, the patron's barcode, and the patron's last name.



Part VIII. Acquisitions

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Chapter 81. Acquisitions

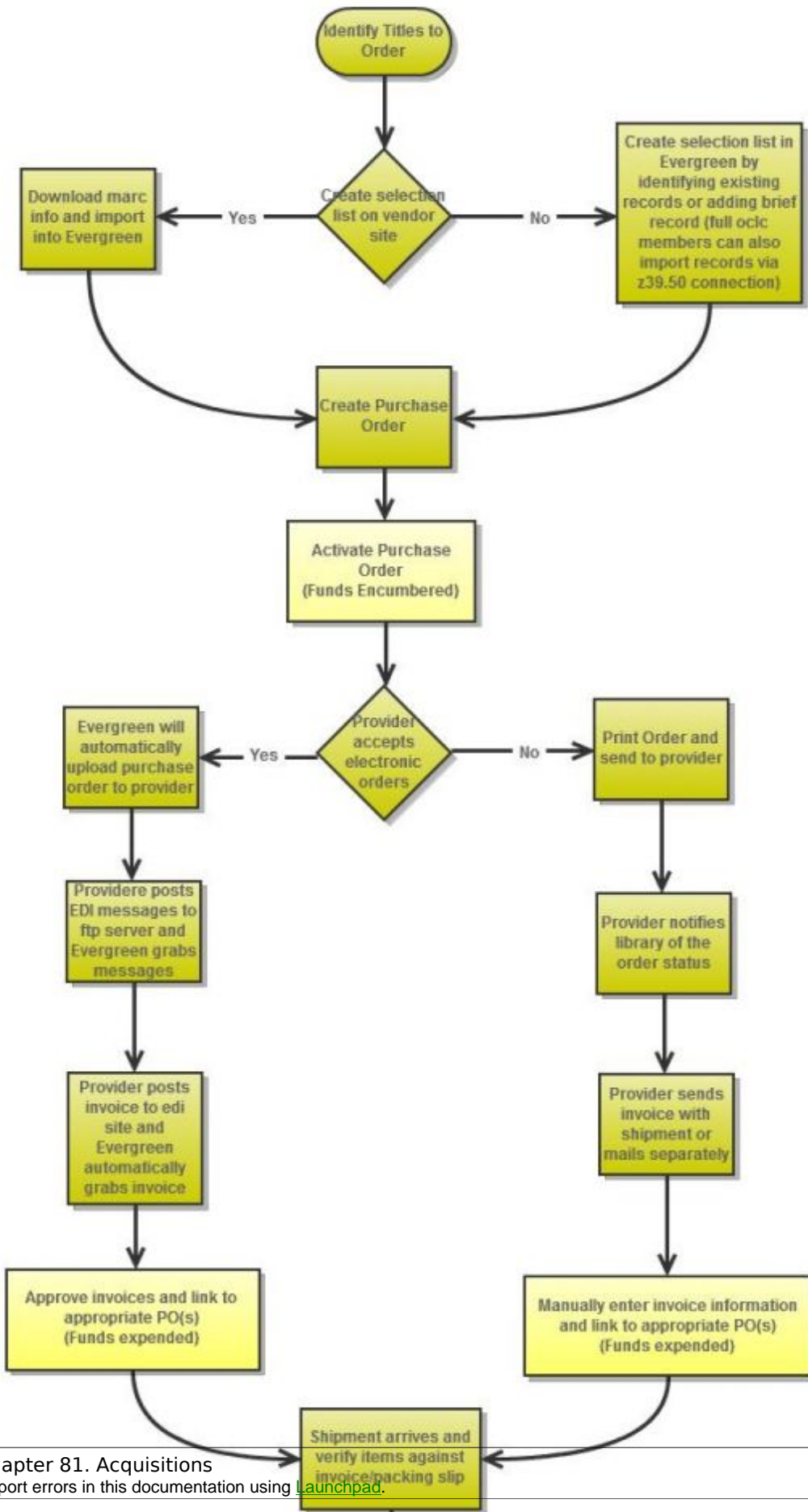
This section is intended for those who are responsible for managing and processing acquisitions.

Before beginning to use Acquisitions, the following must be configured by an administrator:

- Cancel/Suspend Reasons (optional)
- Claiming (optional)
- Currency Types (defaults exist)
- Distribution Formulas (optional)
- EDI Accounts (optional) (see [Setting Up EDI Acquisitions](#) under Software Installation)
- Exchange Rates (defaults exist)
- Funds and Fund Sources
- Invoice Types (defaults exist) and Invoice Payment Methods
- Line Item Features (optional)
- Merge Overlay Profiles and Record Match Sets (see [Batch Importing MARC Records](#) in Cataloging)
- Providers

Acquisitions Workflow

The following diagram shows how the workflow functions in Evergreen. One of the differences in this process you should notice is that when creating a selection list on the vendor site, libraries will be downloading and importing the vendor bibs and item records.



Chapter 82. Selection Lists and Purchase Orders

Selection Lists

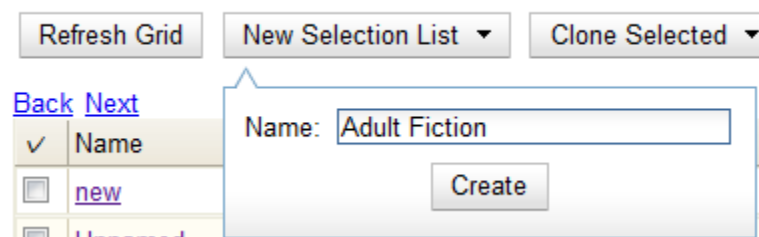
Selection lists allow you to create, manage, and save lists of items that you may want to purchase. To view your selection list, click Acquisitions → My Selection Lists. Use the general search to view selection lists created by other users.

Create a selection list

Selection lists can be created in four areas within the module. Selection lists can be created when you [Add Brief Records](#), Upload MARC Order Records, or find records through the [MARC Federated Search](#). In each of these interfaces, you will find the Add to Selection List field. Enter the name of the selection list that you want to create in that field.

Selection lists can also be created through the My Selection Lists interface:

1. Click Acquisitions → My Selection Lists.
2. Click the New Selection List drop down arrow.
3. Enter the name of the selection list in the box that appears.
4. Click Create.



Add items to a selection list

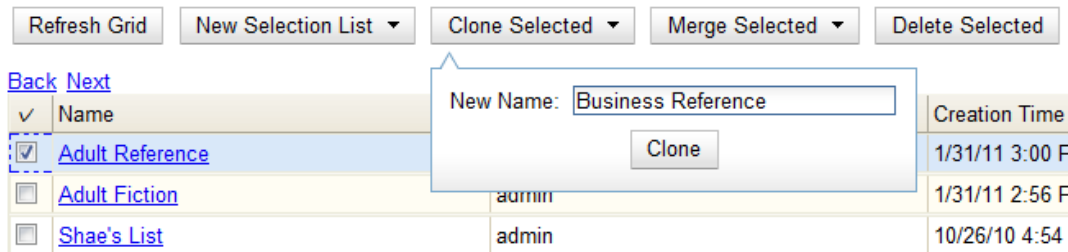
You can add items to a selection list in one of three ways: [add a brief record](#); upload MARC order records; add records through a [federated search](#); or use the View/Place Orders menu item in the catalog.

Clone selection lists

Cloning selection lists enables you to copy one selection list into a new selection list. You can maintain both copies of the list, or you can delete the previous list.

1. Click Acquisitions → My Selection Lists.

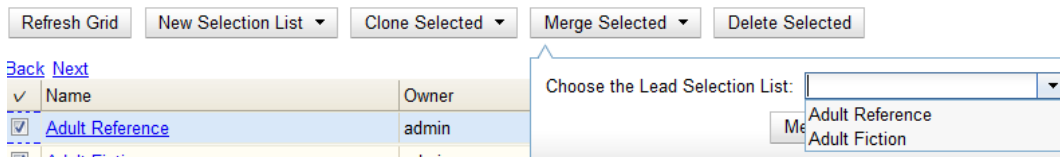
2. Check the box adjacent to the list that you want to clone.
3. Click Clone Selected.
4. Enter a name into the box that appears, and click Clone.



Merge selection lists

You can merge two or more selection lists into one selection list.

1. Click Acquisitions → My Selection Lists.
2. Check the boxes adjacent to the selection lists that you want to merge, and click Merge Selected.
3. Choose the Lead Selection List from the drop down menu. This is the list to which the items on the other list(s) will be transferred.
4. Click Merge.



Delete selection lists

You can delete selection lists that you do not want to save. You will not be able to retrieve these items through the General Search after you have deleted the list. You must delete all line items from a selection list before you can delete the list.

1. Click Acquisitions → My Selection Lists.
2. Check the box adjacent to the selection list(s) that you want to delete.
3. Click Delete Selected.

Mark Ready for Selector

After an item has been added to a selection list or purchase order, you can mark it ready for selector. This step is optional but may be useful to individual workflows.

1. If you want to mark part of a selection list ready for selector, then you can check the box(es) of the line item(s) that you wish to mark ready for selector. If you want to mark the entire list ready for selector, then skip to step 2.
2. Click Actions → Mark Ready for Selector.
3. A pop up box will appear. Choose to mark the selected line items or all line items.
4. Click Go.
5. The screen will refresh. The marked line item(s) will be highlighted pink, and the status changes to selector~ready.

Actions	Status
-- Actions --	selector-ready

Convert selection list to purchase order

Use the Actions menu to convert a selection list to a purchase order.

1. From a selection list, click Actions ~> Create Purchase Order.
2. A pop up box will appear.
3. Select the ordering agency from the drop down menu.
4. Enter the provider.
5. Check the box adjacent to prepayment required if prepayment is required.
6. Choose if you will add All Lineitems or Selected Lineitems to your purchase order.
7. Check the box if you want to Import Bibs and Create Copies in the catalog.
8. Click Submit.

Purchase Orders

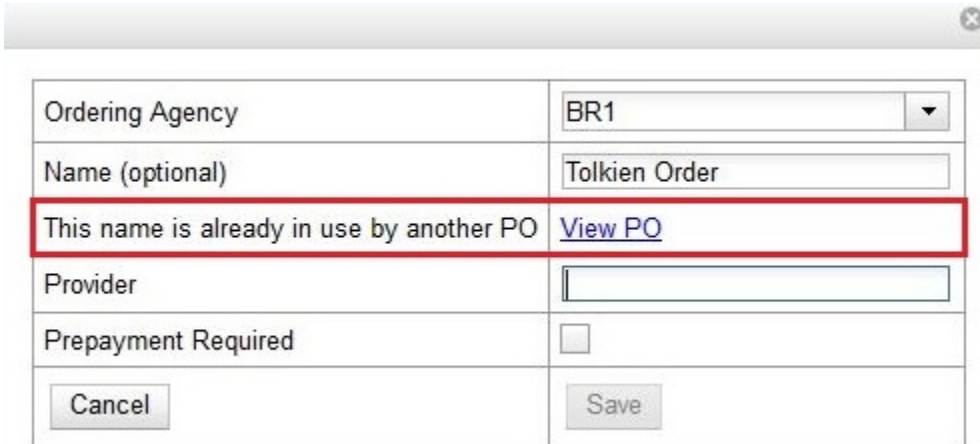
Duplicate Purchase Order Name Warning Dialog

When creating a purchase order or editing an existing purchase order, the purchase order name must be unique for the ordering agency. Evergreen will display a warning dialog to users, if they attempt to create or edit purchase order names that match the names of already existing purchase

orders at the same ordering agency. The Duplicate Purchase Order Name Warning Dialog includes a link that will open the matching purchase order in a new tab.

Purchase Order Names are case sensitive.

Duplicate PO Name Detection When Creating a New Purchase Order



Ordering Agency	BR1
Name (optional)	Tolkien Order
This name is already in use by another PO	View PO
Provider	
Prepayment Required	<input type="checkbox"/>
Cancel	Save

When a duplicate purchase order name is detected during the creation of a new purchase order, the user may:

- Click View PO to view the purchase order with the matching name. The purchase order will open in a new tab.
- Click Cancel to cancel the creation of the new purchase order.
- Within the Name (optional) field, enter a different, unique name for the new purchase order.

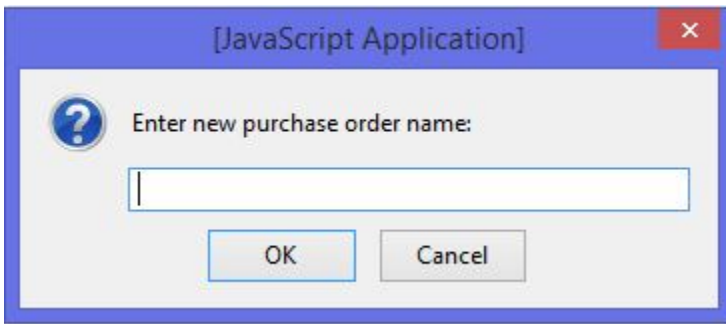
If the purchase order name is unique for the ordering agency, the user will continue filling in the remaining fields and click Save.

If the purchase order name is not unique for the ordering agency, the Save button will remain grayed out to the user until the purchase order is given a unique name.

Duplicate PO Name Detection When Editing the Name of an Existing Purchase Order

To change the name of an existing purchase order:

1. Within the purchase order, the Name of the purchase order is a link (located at the top left-hand side of the purchase order). Click the PO Name.
2. A new window will open, where users can rename the purchase order.
3. Enter the new purchase order name.
4. Click OK.



If the new purchase order name is unique for the ordering agency, the purchase order will be updated to reflect the new name. If the purchase order name is not unique for the ordering agency, the purchase order will not be updated with the new name. Instead, the user will see the Duplicate Purchase Order Name Warning Dialog within the purchase order.

Purchase Order (on-order) Activated 7/20/14 5:22 PM

ID 24 Prepayment Required? No

Name 24
PO name already in use: [View PO](#)

Activatable? Activated

Provider [Smithwell Books \(SMITH\)](#) Notes [\(0\)](#)

Total Lineitems 1 EDI Messages [\(0\)](#)

Total Estimated \$39.95 History [View](#)

Total Encumbered \$0.00 Invoicing [View Invoices \(0\)](#) [Create Invoice](#) [Link Invoice ▾](#)

Total Spent \$0.00 Cancel [Cancel order ▾](#)

When a duplicate purchase order name is detected during the renaming of an existing purchase order, the user may:

- Click View PO to view the purchase order with the matching name. The purchase order will open in a new tab.
- Repeat the steps to change the name of an existing purchase order and make the name unique.

Purchase Order Activation Progress Bar

After you click Activate Order, you will be presented with the record import interface for records that are not already in the catalog. Once you complete entering in the parameters for the record import interface, the progress screen will appear. As of Evergreen 2.9, this progress screen consists of a progress bar in the foreground, and a tally of the following in the background of the bottom-left corner:

- Lineitems processed
- Vandelay Records processed
- Bib Records Merged/Imported
- ACQ Copies Processed

- Debits Encumbered
- Real Copies Processed

Activate Purchase Order with Zero Copies

In previous versions, by default, a purchase order could be activated with or without copies attached to line items.


In versions 2.3 and above, by default, a purchase order cannot be activated if a line item on the purchase order has zero copies. A new feature enables you to activate a purchase order that lacks copies.

To activate a purchase order with line items that have zero copies, check the box Allow activation with zero-copy lineitems.

Purchase Order (pending)
 ID 2 Prepayment Required? No
 Name 2 Activatable? Yes: [Activate Order](#)
 Provider [Baker and Taylor \(BT\)](#) Notes (0)
 Total LineItems 1 EDI Messages (0)
 Total Estimated \$0.00 History [View](#)
 Total Encumbered \$0.00 Invoicing [View Invoices \(0\)](#) [Create Invoice](#) [Link Invoice](#)
 Total Spent \$0.00 Cancel [Cancel order](#)

Allow activation with zero-copy lineitems

--Actions--

Line Items	Items	Notes	Actions	Status	Estimated Price
 Isaac's storm : a man, a time, and the deadliest hurricane in history / Erik Larson. Larson, Erik. 0609602330 1st ed. c1999. Crown Publishers, Inc. # 42 link to catalog worksheet requests		Copies(0) Notes(0)	-- Actions --	pending-order	16.00

Enhancements to Canceled and Delayed Items

Cancel/Delay reasons have been modified so that you can easily differentiate between canceled and delayed items. Each label now begins with Canceled or Delayed. To view the list, click Admin → Server Administration → Acquisitions → Cancel Reasons.

The cancel/delay reason label is displayed as the line item status in the list of line items or as the copy status in the list of copies.

Purchase Order (on-order) Activated 7/20/14 5:22 PM
 ID 21 Prepayment Required? No
 Name 21 Activatable? Activated
 Provider [Smithsonian Books \(SMITH\)](#) Notes (0)
 Total LineItems 1 EDI Messages (0)
 Total Estimated \$39.95 History [View](#)
 Total Encumbered \$39.95 Invoicing [View Invoices \(0\)](#) [Create Invoice](#) [Link Invoice](#)
 Total Spent \$0.00 Cancel [Cancel order](#)

--Actions--

Copies	Owning Branch	Copy Location	Collection Code	Fund	Circ Modifier	Distribution Formula	Status	Estimated Price
<input checked="" type="checkbox"/>							Canceled (Invalid ISBN)	7.99

Direct Charges, Taxes, Fees, etc.
 There are no miscellaneous attached to this purchase order.

Purchase Order (on-order) Activated 7/20/14 5:43 PM

ID 23 Prepayment Required? No

Name 23 Activatable? Activated

Provider Smithwell Books (SMITH) Notes (0)

Total Lineitems 1 EDI Messages (0)

Total Estimated \$64.95 History [View](#)

Total Encumbered \$51.96 Invoicing [View Invoices \(0\)](#) [Create Invoice](#) [Link Invoice](#)

Total Spent \$0.00 Cancel [Cancel order](#)

[Return to Search](#)

The casual vacancy / J.K. Rowling, by Rowling, J. K. / 9780316228514
 5 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 1 Cancelled, 1 Delayed
 Estimated \$38.97, Encumbered \$51.96, Paid \$0.00
 # 56 # 23 7/20/14

Add/Edit Items

[Return](#) | Item Count: 5 | [Go](#) | [Save Changes](#)

Distribution Formulas [Apply](#) [Reset Formulas](#)

Owning Branch	Copy Location	Collection Code	Fund	Circ Modifier	Callnumber	Barcode	Notes	Receiver
BR1	Stacks		fiction (2014)					Mark Received Cancel
BR1	Stacks		fiction (2014)					Mark Received Cancel
BR1	Stacks		fiction (2014)					Mark Received Cancel
BR1	Stacks		fiction (2014)					Mark Received Cancel
BR1	Stacks		fiction (2014)					Mark Received Cancel
BR1	Stacks		fiction (2014)					Mark Received Cancel

Delayed, Backorder
 Canceled, Invalid ISBN

A delayed line item can now be canceled. You can mark a line item as delayed, and if later, the order cannot be filled, you can change the line item's status to canceled. When delayed line items are canceled, the encumbrances are deleted.

Cancel/delay reasons now appear on the worksheet and the printable purchase order.

Paid PO Line Items

Purchase Order line items are marked as "Paid" in red text when all non-cancelled copies on the line item have been invoiced.

Line Items [Expand All](#) Items Notes Actions Status Estimated Price

Alexander Hamilton
 Ron Chernow 9780143034759 [Expand](#) Copies(2) Notes(0) -- Actions -- Received 10

907 | 0 | [catalog](#) | [worksheet](#) | [requests](#) | [view invoice\(s\)](#) | [queue](#) | **Paid**

Brief Records

Brief records are short bibliographic records with minimal information that are often used as placeholder records until items are received. Brief records can be added to selection lists or purchase orders and can be imported into the catalog. You can add brief records to new or existing selection lists. You can add brief records to new, pending or on~order purchase orders.

Add brief records to a selection list

1. Click Acquisitions → New Brief Record. You can also add brief records to an existing selection list by clicking the Actions menu on the selection list and choosing Add Brief Record.
2. Choose a selection list from the drop down menu, or enter the name of a new selection list.

3. Enter bibliographic information in the desired fields.
4. Click Save Record.

New Brief Record

Add To Selection List	Business Reference ▼
Title of work	Business Grammar, Style & Usage
Author of work	Abell, Alicia
Language of work	
Pagination	
ISBN	9781587620263
ISSN	
Price	
Identifier	
Publisher	
Publication Date	2003
Edition	
UPC	
<input type="button" value="Save Record"/>	

Add brief records to purchase orders

You can add brief records to new or existing purchase orders.

1. Open or create a purchase order. See the section on [purchase orders](#) for more information.
2. Click Add Brief Record.
3. Enter bibliographic information in the desired fields. Notice that the record is added to the purchase order that you just created.
4. Click Save Record.

New Brief Record

Adding to Purchase Order	<input type="text" value="49"/>
Title of work	<input type="text" value="Small Business for Dummies"/>
Author of work	<input type="text" value="Tyson, Eric"/>
Language of work	<input type="text"/>
Pagination	<input type="text"/>
ISBN	<input type="text" value="978-0470177471"/>
ISSN	<input type="text"/>
Price	<input type="text"/>
Identifier	<input type="text"/>
Publisher	<input type="text"/>
Publication Date	<input type="text" value="2008"/>
Edition	<input type="text"/>
UPC	<input type="text"/>

MARC Federated Search

The MARC Federated Search enables you to import bibliographic records into a selection list or purchase order from a Z39.50 source.

1. Click Acquisitions → MARC Federated Search.
2. Check the boxes of Z39.50 services that you want to search. Your local Evergreen Catalog is checked by default. Click Submit.

Search Sources

- Evergreen Catalog
- OCLC
- Library of Congress
- \$biblios.net

Search Fields

Author	<input type="text"/>
ISBN	<input type="text" value="978-1439164631"/>
ISSN	<input type="text"/>
Item Type	<input type="text"/>
LCCN	<input type="text"/>
Publication Date	<input type="text"/>
Publisher	<input type="text"/>
Title	<input type="text" value="left neglected"/>
Title Control Number	<input type="text"/>
Hits Per Source	<input type="text" value="10"/>

- A list of results will appear. Click the "Copies" link to add copy information to the line item. See the [section on Line Items](#) for more information.
- Click the Notes link to add notes or line item alerts to the line item. See the [section on Line Items](#) for more information.
- Enter a price in the "Estimated Price" field.
- You can save the line item(s) to a selection list by checking the box on the line item and clicking Actions → Save Items to Selection List. You can also create a purchase order from the line item(s) by checking the box on the line item and clicking Actions ~> Create Purchase Order.

Items	Notes	Actions	Status	Estimated Price
Copies(0)	Notes(0)	<input type="button" value="-- Actions --"/>	new	<input type="text"/>

Line Items

Return to Line Item

This feature enables you to return to a specific line item on a selection list, purchase order, or invoice after you have navigated away from the page that contained the line item. This feature is especially useful when you must identify a line item in a long list. After working with a line item, you can return to your place in the search results or the list of line items.





To use this feature, select a line item, and then, depending on the location of the line item, click Return or Return to search. Evergreen will take you back to the specific line item in your search and highlight the line item with a colored box.

For example, you retrieve a selection list, find a line item to examine, and click the Copies link. After editing the copies, you click Return. Evergreen takes you back to your selection list and highlights the line item that you viewed.

Selection list *Popular Fiction*
Create date: 8/23/12
Last updated: 8/23/12
Selector: admin
Entry Count: 7

--Actions--

✓ Line Items

	A Thousand Splendid Suns Khaled Hosseini 9781594483851 # 55 link to catalog worksheet requests
	The Alchemist Paul Coelho 9780061122415 # 50 link to catalog worksheet requests
	The Help Kathryn Stockett 9780425245132 # 53 link to catalog worksheet requests
	The Litigators John Grisham 9780385535137 # 52 link to catalog worksheet requests

This feature is available in General Search Results, Purchase Orders, and Selection Lists, whenever any of the following links are available:

- Selection List
- Purchase Order
- Copies
- Notes
- Worksheet

This feature is available in Invoices whenever any of the following links are available:

- Title

- Selection List
- Purchase Order

Display a Count of Existing Copies on Selection List and Purchase Order Lineitems

When displaying Acquisitions lineitems within the Selection List and Purchase Order interfaces, Evergreen displays a count of existing catalog copies on the lineitem. The count of existing catalog copies refers to the number of copies owned at the ordering agency and / or the ordering agency's child organization units.

The counts display for lineitems that have a direct link to a catalog record. Generally, this includes lineitems created as "on order" based on an existing catalog record and lineitems where "Load Bibs and Items" has been applied.

The count of existing copies does not include copies that are in either a Lost or a Missing status.

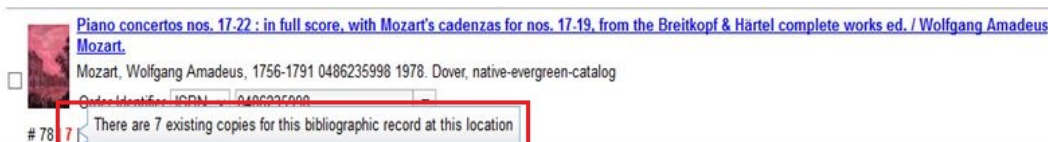
The existing copy count displays in the link "bar" located below the Order Identifier within the lineitem.

If no existing copies are found, a "0" (zero) will display in plain text.

If the existing copy count is greater than zero, then the count will display in bold and red on the lineitem.



The user may also hover over the existing copy count to view the accompanying tooltip.



Chapter 83. Invoices

You can create invoices for purchase orders, individual line items, and blanket purchases. You can also link existing invoices to purchase order.

You can invoice items before you receive the items if desired. You can also reopen closed invoices, and you can print all invoices.

Creating invoices and adding line items

You can add specific line items to an invoice from the PO or acquisitions search results screen. You can also search for relevant line items from within the invoice interface. In addition, you can add all line items from an entire Purchase order to an invoice or you can create a blanket invoice for items that are not attached to a purchase order.

Creating a blanket invoice

You can create a blanket invoice for purchases that are not attached to a purchase order.

1. Click Acquisitions → Create invoice.
2. Enter the invoice information in the top half of the screen.
3. To add charges for materials not attached to a purchase order, click Add Charge... This functionality may also be used to add shipping, tax, and other fees.
4. Select a charge type from the drop-down menu.



New charge types can be added via Admin → Server Administration → Acquisitions → Invoice Item Type.

5. Select a fund from the drop-down menu.
6. Enter a Title/Description of the resource.
7. Enter the amount that you were billed.
8. Enter the amount that you paid.
9. Save the invoice.

Invoice

Vendor Invoice ID	<input type="text" value="11111111"/>	Invoice Date	<input type="text" value="2/1/2011"/>
Receive Method	<input type="text" value="Paper"/>	Invoice Type	<input type="text"/>
Provider	<input type="text" value="STAPLES"/>	Shipper	<input type="text" value="STAPLES"/>
Note	<input type="text"/>	Payment Auth	<input type="text"/>
Payment Method	<input type="text" value="Credit"/>	Receiver	<input type="text" value="APEX"/>

Direct Charges, Taxes, Fees, etc.

Charge Type	Fund	Title/Description	Billed	Paid	Delete
<input type="text" value="Non-library Item"/>	<input type="text" value="OFFICE (2011)"/>	<input type="text" value="Office Supplies"/>	<input type="text" value="50.00"/>	<input type="text" value="50.00"/>	Delete

[Add Charge...](#)

	Total	Total	Balance
<input type="text" value="Save"/>	<input type="text" value="50.00"/>	<input type="text" value="50.00"/>	<input type="text" value="0.00"/>

Adding line items from a Purchase Order or search results screen to an invoice

You can create an invoice or add line items to an invoice directly from a Purchase Order or an acquisitions search results screen.

1. Place a checkmark in the box for selected line items from the Purchase Order' or acquisitions search results page.
2. If you are creating a new invoice, click Actions → Create Invoice From Selected Line Items. Enter the invoice information in the top half of the screen.
3. If you are adding the line items to an existing invoice, click Actions → Link Selected Line Items to Invoice. Enter the Invoice # and Provider and then click the Link button.
4. Evergreen automatically enters the number of items that was ordered in the # Invoiced and # Paid fields. Adjust these quantities as needed.
5. Enter the amount that the organization was billed. This entry will automatically propagate to the Paid field.
6. You have the option to add charge types if applicable. Charge types are additional charges that can be selected from the drop-down menu. Common charge types include taxes and handling fees.
7. You have four options for saving an invoice.
 - Click Save to save the changes you have made while staying in the current invoice.
 - Click Save & Clear to save the changes you have made and to replace the current invoice with a new invoice so that you can continue invoicing items.
 - Click Prorate to save the invoice and prorate any additional charges, such as taxes, across funds, if multiple funds have been used to pay the invoice.



Prorating will only be applied to charge types that have the Prorate? flag set to true. This setting can be adjusted via Admin → Server Administration → Acquisitions → Invoice Item Type.

- Click Close. Choose this option when you have completed the invoice. This option will also save any changes that have been made. Funds will be disencumbered when the invoice is closed.
8. You can re-open a closed invoice by clicking the link, Re-open invoice. This link appears at the bottom of a closed invoice.

Search for line items from an invoice

You can open an invoice, search for line items from the invoice, and add your search results to a new or existing invoice. This feature is especially useful when you want to populate an invoice with line items from multiple purchase orders.

In this example, we'll add line items to a new invoice:

1. Click Acquisitions → Create Invoice.
2. An invoice summary appears at the top of the invoice and includes the number of line items on the invoice and the expected cost of the items. This number will change as we add line items to the invoice.
3. Enter the invoice details (optional). If you do not enter the invoice details, then Evergreen will populate the Provider and Receiver fields with information from the line items.



If you do not want to display the details, click Hide Details.

Invoice

Lineitems: **0**

Expected Cost: **0.00**

Hide Details

Vendor Invoice ID	<input type="text" value="ABCD1234"/>	Invoice Date	<input type="text" value="8/23/2012"/>
Receive Method	<input type="text" value="Paper"/> ▼	Invoice Type	<input type="text"/>
Provider	<input type="text" value="BT"/>	Shipper	<input type="text" value="BT"/>
Note	<input type="text"/>	Payment Auth	<input type="text"/>
Payment Method	<input type="text" value="Credit Card"/> ▼	Receiver	<input type="text" value="BR1"/> ▼

4. Click the Search tab to add line items to an invoice.
5. Select your search criteria from the drop-down menu.
6. On the right side of the screen, Limit to Invoiceable Items is checked by default. Invoiceable items are those that are on order, have not been cancelled, and have not yet been invoiced. Evergreen also filters out items that have already been added to an invoice. Finally, if this box is checked, and if you entered the invoice details at the top of the screen, then Evergreen will filter your search for items that have the same provider as the one that you entered. If you have not entered the invoice details, then Evergreen removes this limit.
7. Sort by title (optional). By default, results are listed by line item number. Check this box to sort by ascending title.
8. Building the results list progressively (optional). By default, new search results will replace previous results on the screen. Check this box for the search results list to build with each subsequent search. This option is useful for libraries that might search for line items by scanning an ISBN. Several ISBNs can be scanned and then the entire result set can be selected and moved to the invoice in a batch.
9. Click Search.

Invoice Search

Search for matching of the following terms (building the results list progressively)

PO - Name

[Next](#) Sort by title Limit to Invoiceable Items

Select All

<input type="checkbox"/>	<p>Big Nate : the boy with the biggest head in the world / Lincoln Peirce., by Peirce, Lincoln. (9780007355167)</p> <p>1 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$10.00, Paid \$0.00 # 663 20121120 11/20/12</p>
<input type="checkbox"/>	<p>Diary of a Wimpy Kid: The Third Wheel, by (9781419705847)</p> <p>1 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$15.00, Encumbered \$15.00, Paid \$0.00 # 662 20121120 11/20/12</p>
<input type="checkbox"/>	<p>Diary of a wimpy kid /., by ()</p> <p>1 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$25.00, Encumbered \$25.00, Paid \$0.00 # 660 20121120 11/20/12</p>

10 Use the Next button to page through results, or select a line item(s), and click Add Selected Items to Invoice. The rows that you selected are highlighted, and the invoice summary at the top of the screen updates.

Invoice

Lineitems: 2

Expected Cost: 40.99

Show Details ABCD1234

Invoice Search

Search for matching of the following terms:

Add Search Term

Search [Next](#)

<input type="checkbox"/>	A Thousand Splendid Suns, by Khaled Hosseini (9781594483851) 1 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.99, Encumbered \$10.99, Paid \$0.00 # 55 4 8/23/12 Popular Fiction
<input type="checkbox"/>	The Alchemist, by Paul Coelho (9780061122415) 2 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$30.00, Encumbered \$30.00, Paid \$0.00 # 50 4 8/23/12 Popular Fiction

11 Click the Invoice tab to see the updated invoice.

12 Evergreen automatically enters the number of items that was ordered in the # Invoiced and # Paid fields. Adjust these quantities as needed.

13 Enter the amount that the organization was billed. This entry will automatically propagate to the Paid field. The Per Copy field calculates the cost of each copy by dividing the amount that was billed by the number of copies for which the library paid.

Invoice Search

Bibliographic Items

Title Details	# Invoiced / # Paid	Billed	Per Copy	Paid	Detach
A Thousand Splendid Suns , by Khaled Hosseini (9781594483851) 1 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.99, Encumbered \$10.99, Paid \$0.00 # 55 # 4 8/23/12 Popular Fiction	1	0.00	0.00		Detach
The Alchemist , by Paul Coelho (9780061122415) 2 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$30.00, Encumbered \$30.00, Paid \$0.00 # 50 # 4 8/23/12 Popular Fiction	2	0.00	0.00		Detach

Direct Charges, Taxes, Fees, etc.

Charge Type	Fund	Title/Description	Billed	Paid	Delete
Add Charge...					

Save Save & Clear Prorate Close

Total	Total	Balance
0.00	0.00	0.00

Create an invoice for a purchase order

You can create an invoice for all of the line items on a purchase order. With the exception of fields with drop-down menus, no limitations on the data that you enter exist.

1. Open a purchase order.
2. Click Create Invoice.
3. Enter a Vendor Invoice ID. This number may be listed on the paper invoice sent from your vendor.
4. Choose a Receive Method from the drop-down menu. The system will default to Paper.
5. The Provider is generated from the purchase order and is entered by default.
6. Enter a note (optional).
7. Select a payment method from the drop-down menu (optional).
8. The Invoice Date is entered by default as the date that you create the invoice. You can change the date by clicking in the field. A calendar drops down.
9. Enter an Invoice Type (optional).
- 10The Shipper defaults to the provider that was entered in the purchase order.
- 11Enter a Payment Authorization (optional).
- 12The Receiver defaults to the branch at which your workstation is registered. You can change the receiver by selecting an org unit from the drop-down menu.



The bibliographic line items are listed in the next section of the invoice. Along with the title and author of the line items is a summary of copies ordered, received, invoiced, claimed,

and cancelled. You can also view the amounts estimated, encumbered, and paid for each line item. Finally, each line item has a line item ID and links to the selection list (if used) and the purchase order.

13Evergreen automatically enters the number of items that was ordered in the # Invoiced and # Paid fields. Adjust these quantities as needed.

14Enter the amount that the organization was billed. This entry will automatically propagate to the Paid field. The Per Copy field calculates the cost of each copy by dividing the amount that was billed by the number of copies for which the library paid.

15You have the option to add charge types if applicable. Charge types are additional charges that can be selected from the drop-down menu. Common charge types include taxes and handling fees.

16You have four options for saving an invoice.

- Click Save to save the changes you have made while staying in the current invoice.
- Click Save & Clear to save the changes you have made and to replace the current invoice with a new invoice so that you can continue invoicing items.
- Click Prorate to save the invoice and prorate any additional charges, such as taxes, across funds, if multiple funds have been used to pay the invoice.



Prorating will only be applied to charge types that have the Prorate? flag set to true. This setting can be adjusted via Admin → Server Administration → Acquisitions → Invoice Item Type.

- Click Close. Choose this option when you have completed the invoice. This option will also save any changes that have been made. Funds will be disencumbered when the invoice is closed.

17You can re-open a closed invoice by clicking the link, Re-open invoice. This link appears at the bottom of a closed invoice.

Link an existing invoice to a purchase order

You can use the link invoice feature to link an existing invoice to a purchase order. For example, an invoice is received for a shipment with items on purchase order #1 and purchase order #2. When the invoice arrives, purchase order #1 is retrieved, and the invoice is created. To receive the items on purchase order #2, simply link the invoice to the purchase order. You do not need to recreate it.

1. Open a purchase order.
2. Click Link Invoice.
3. Enter the Invoice # and the Provider of the invoice to which you wish to link.

4. Click Link.

Incumbered \$0.00 Invoicing View Invoices (1) Create Invoice Link Invoice ▾

Total Spent \$40.00 Cancel Cancel order ▾

ns-- ▾

Choose invoice

Invoice #

Provider

[Link](#)

Electronic Invoicing

Evergreen can receive electronic invoices from providers. To access an electronic invoice, you must:

1. Configure EDI for your provider.
2. Evergreen will receive invoices electronically from the provider.
3. Click Acquisitions → Open Invoices to view a list of open invoices, or use the General Search to retrieve invoices. Click a hyperlinked invoice number to view the invoice.

Acquisitions Search

[Refresh Grid](#) [Print Selected Invoices](#)

[Back](#) [Next](#)

✓	#	Vendor Invoice ID	Receiver	Provider	Shipper	Complete	Invoice Date
<input type="checkbox"/>	1	ABCD1234	BR1	BT	BT	False	8/23/12 12:00 AM

View an invoice

You can view an invoice in one of four ways: view open invoices; view invoices on a purchase order; view invoices by searching specific invoice fields; view invoices attached to a line item.

1. To view open invoices, click Acquisitions → Open invoices. This opens the Acquisitions Search screen. The default fields search for open invoices. Click Search.

Acquisitions Search

Search for matching of the following terms:

I - Complete

I - Receiver

[Add Search Term](#)

[Search](#)

2. To view invoices on a purchase order, open a purchase order and click the View Invoices link. The number in parentheses indicates the number of invoices that are attached to the purchase order.

Provider Ingram (Ingram)	Notes (0)
Total Lineitems 2	EDI Messages (0)
Total Estimated \$45.00	History View
Total Encumbered \$0.00	Invoicing <input type="button" value="View Invoices (1)"/>
Total Spent \$40.00	Cancel <input type="button" value="Cancel order ▼"/>

3. To view invoices by searching specific invoice fields, see the section on searching the acquisitions module.

4. To view invoices for a line item, see the section on line item invoices.

Receive Items From an Invoice

This feature enables users to receive items from an invoice. Staff can receive individual copies, or they can receive items in batch.

Receive Items in Batch (List Mode)

In this example, we have created a purchase order, added line items and copies, and activated the purchase order. We will create an invoice from the purchase order, receive items, and invoice them. We will receive the items in batch from the invoice.

- 1) Retrieve a purchase order.
- 2) Click Create Invoice.

Purchase Order (on-order) Activated 11/2/11 6:01 AM

ID 10	Prepayment Required? No
Name 10	Activatable? No
Provider Books R Us (BRU)	Notes (0)
Total Lineitems 3	EDI Messages (0)
Total Estimated \$30.00	History View
Total Encumbered \$30.00	Invoicing <input type="button" value="View Invoices (0)"/> <input type="button" value="Create Invoice"/> <input type="button" value="Link Invoice ▼"/>
Total Spent \$0.00	Cancel <input type="button" value="Cancel order ▼"/>

--Actions--

Line Items	Items	Notes	Actions	Status	Estimated Price
<input type="checkbox"/> Started Early, Took My Dog Atkinson, Kate 9780385608022 2010 # 34 → catalog @ worksheet requests	Copies(2)	Notes(0)	-- Actions --	on-order	5.00
<input type="checkbox"/> When Will There Be Good News? Atkinson, Kate 9780552772457 2009 # 35 → catalog @ worksheet requests	Copies(2)	Notes(0)	-- Actions --	on-order	5.00
<input type="checkbox"/> One Good Turn Atkinson, Kate 9780552772440 2007 # 36 → catalog @ worksheet requests	Copies(2)	Notes(0)	-- Actions --	on-order	5.00

3) The blank invoice appears. In the top half of the invoice, enter descriptive information about the invoice. In the bottom half of the invoice, enter the number of items for which you were invoiced, the amount that you were billed, and the amount that you paid.

Invoice

Vendor Invoice ID	<input type="text" value="ABCD1234"/>	Invoice Date	<input type="text" value="11/2/2011"/>
Receive Method	<input type="text" value="Paper"/>	Invoice Type	<input type="text"/>
Provider	<input type="text" value="BRU"/>	Shipper	<input type="text" value="BRU"/>
Note	<input type="text"/>	Payment Auth	<input type="text"/>
Payment Method	<input type="text" value="Purchase Order"/>	Receiver	<input type="text" value="BR1"/>

Bibliographic Items

Title Details	# Invoiced / # Paid	Billed	Paid	Detach
One Good Turn , by Atkinson, Kate (9780552772440) 2 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$10.00, Paid \$0.00 # 36 10 11/2/11	2 / 2	10	10	Detach
When Will There Be Good News? , by Atkinson, Kate (9780552772457) 2 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$10.00, Paid \$0.00 # 35 10 11/2/11	2 / 2	10	10	Detach
Started Early, Took My Dog , by Atkinson, Kate (9780385608022) 2 Ordered, 0 Received, 0 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$10.00, Paid \$0.00 # 34 10 11/2/11	2 / 2	10	10	Detach

4) Click Save. You must choose a save option before you can receive items.

5) The screen refreshes. In the top right corner of the screen, click Receive Items.

6) The Acquisitions Invoice Receiving screen opens. By default, this screen enables users to receive items in batch, or Numeric Mode. You can select the number of copies that you want to receive; you are not receiving specific copies in this mode.

7) Select the number of copies that you want to receive. By default, the number that you invoiced will appear. In this example, we will receive one copy of each title.



You cannot receive fewer items than 0 (zero) or more items than the number that you ordered.

8) Click Receive Selected Copies.

Acquisitions Invoice Receiving

Invoice #ABCD1234

[[Use List Mode](#)]

Receive Selected Copies

[One Good Turn](#), by Atkinson, Kate (9780552772440)

2 Ordered, 0 Received, 2 Invoiced, 0 Claimed, 0 Cancelled

Estimated \$10.00, Encumbered \$0.00, Paid \$10.00

36 [10 11/2/11](#)

Number of copies to receive:

[When Will There Be Good News?](#), by Atkinson, Kate (9780552772457)

2 Ordered, 0 Received, 2 Invoiced, 0 Claimed, 0 Cancelled

Estimated \$10.00, Encumbered \$0.00, Paid \$10.00

35 [10 11/2/11](#)

Number of copies to receive:

[Started Early, Took My Dog](#), by Atkinson, Kate (9780385608022)

2 Ordered, 0 Received, 2 Invoiced, 0 Claimed, 0 Cancelled

Estimated \$10.00, Encumbered \$0.00, Paid \$10.00

34 [10 11/2/11](#)

Number of copies to receive:

Receive Selected Copies

9) When you are finished receiving items, close the screen. You can repeat this process as you receive more copies.

Receive Specific Copies (Numeric Mode)

In this example, we have created a purchase order, added line items and copies, and activated the purchase order. We will create an invoice from the purchase order, receive items, and invoice them. We will receive specific copies from the invoice. This function may be useful to libraries who purchase items that have been barcoded by their vendor.

- 1) Complete steps 1-5 in the previous section.
- 2) The Acquisitions Invoice Receiving screen by default enables user to receive items in batch, or Numeric Mode. Click Use List Mode to receive specific copies.
- 3) Select the check boxes adjacent to the copies that you want to receive. Leave unchecked the copies that you do not want to receive.
- 4) Click Receive Selected Copies.

Acquisitions Invoice Receiving

Invoice #ABCD1234

[\[Use Numeric Mode \]](#)

Receive Selected Copies

Select All	Owning Branch	Shelving Location	Collection Code	Fund	Circ Modifier	Callnumber	Barcode
<input checked="" type="checkbox"/>	One Good Turn , by Atkinson, Kate (9780552772440) 2 Ordered, 1 Received, 2 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$0.00, Paid \$10.00 # 36 10_11/2/11	BR1	Stacks	Book	PF	on order	ACQ31
<input checked="" type="checkbox"/>	When Will There Be Good News? , by Atkinson, Kate (9780552772457) 2 Ordered, 1 Received, 2 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$0.00, Paid \$10.00 # 35 10_11/2/11	BR1	Stacks	Book	PF	on order	ACQ29
<input checked="" type="checkbox"/>	Started Early, Took My Dog , by Atkinson, Kate (9780385608022) 2 Ordered, 1 Received, 2 Invoiced, 0 Claimed, 0 Cancelled Estimated \$10.00, Encumbered \$0.00, Paid \$10.00 # 34 10_11/2/11	BR1	Stacks	Book	PF	on order	ACQ27

The screen will refresh. Copies that have not yet been received remain on the screen so that you can receive them when they arrive.

5) When all copies on an invoice have been received, a message confirms that no copies remain to be received.

6) The purchase order records that all items have been received.

Items	Notes	Actions	Status
Copies(2)	Notes(0)	-- Actions --	received
Copies(2)	Notes(0)	-- Actions --	received
Copies(2)	Notes(0)	-- Actions --	received

Chapter 84. Load MARC Order Records

The Acquisitions Load MARC Order Record interface enables you to add MARC records to selection lists and purchase orders and upload the records into the catalog. You can both create and activate purchase orders in one step from this interface. You can also load bibs and items into the catalog.

Leveraging the match sets available in the cataloging MARC batch Import interface, you can also utilize record matching mechanisms to prevent the creation of duplicate records.

For detailed instructions on record matching and importing, see [Batch Importing MARC Records](#).

Basic Upload Options

1. Click Acquisitions → Load MARC Order Records.
2. If you want to upload the MARC records to a new purchase order, then check Create Purchase Order.
3. If you want to activate the purchase order at the time of creation, then check Activate Purchase Order.
4. Enter the name of the Provider. The text will auto-complete.
5. Select an org unit from the drop down menu. The context org unit is the org unit responsible for placing and managing the order. It defines what org unit settings (eg copy locations) are in scope, what fiscal year to use, who is allowed to view/modify the PO, where the items should be delivered and the EDI SAN. In the case of a multi-branch system uploading records for multiple branches, choosing the system is probably best. Single branch libraries or branches responsible for their own orders should probably select the branch.
6. If you want to upload the records to a selection list, you can select a list from the drop down menu, or type in the name of the selection list that you want to create.
7. Select a Fiscal Year from the dropdown menu that matches the fiscal year of the funds that will be used for the order. If no fiscal year is selected, the system will use the organizational unit's default fiscal year stored in the database. If not fiscal year is set, the system will default to the current calendar year.

Record Matching Options

Use the options below the horizontal rule for the system to check for matching records before importing an order record.

1. Create a queue to which you can upload your records, or add you records to an existing queue
2. Select a Record Match Set from the drop-down menu.

3. Select a Merge Profile. Merge profiles enable you to specify which tags should be removed or preserved in incoming records.
4. Select a Record Source from the drop-down menu.
5. If you want to automatically import records on upload, select one or more of the following options.
 - a. Import Non-Matching Records - import any records that don't have a match in the system.
 - b. Merge on Exact Match (901c) - use only for records that will match on the 901c field.
 - c. Merge on Single Match - import records that only have one match in the system.
 - d. Merge on Best Match - If more than one match is found in the catalog for a given record, Evergreen will attempt to perform the best match as defined by the match score.
6. To only import records that have a quality equal to or greater than the existing record, enter a Best/Single Match Minimum Quality Ratio. Divide the incoming record quality score, as determined by the match set's quality metrics, by the record quality score of the best match that exists in the catalog. If you want to ensure that the inbound record is only imported when it has a higher quality than the best match, then you must enter a ratio that is higher than 1, such as 1.1. If you want to bypass all quality restraints, enter a 0 (zero) in this field.
7. Select an Insufficient Quality Fall-Through Profile if desired. This field enables you to indicate that if the inbound record does not meet the configured quality standards, then you may still import the record using an alternate merge profile. This field is typically used for selecting a merge profile that allows the user to import holdings attached to a lower quality record without replacing the existing (target) record with the incoming record. This field is optional.
8. If your order records contain holdings information, by default, Evergreen will load them as acquisitions copies. (Note: These can be overlaid with real copies during the MARC batch importing process.) Or you can select Load Items for Imported Records to load them as live copies that display in the catalog.

Default Upload Settings

You can set default upload values by modifying the following settings in Admin → Local Administration → Library Settings Editor:

- Upload Activate PO
- Upload Create PO
- Upload Default Insufficient Quality Fall-Thru Profile
- Upload Default Match Set
- Upload Default Merge Profile
- Upload Upload Default Min. Quality Ratio

- Upload Default Provider
- Upload Import Non Matching by Default
- Upload Load Items for Imported Records by Default
- Upload Merge on Best Match by Default
- Upload Merge on Exact Match by Default
- Upload Merge on Single Match by Default

Sticky Settings

If the above default settings are not implemented, the selections/values used in the following fields will be sticky and will automatically populate the fields the next time the Load MARC Order Records screen is pulled up:

- Create Purchase Order
- Activate Purchase Order
- Context Org Unit
- Record Match Set
- Merge Profile
- Import Non-Matching Records
- Merge on Exact Match (901c)
- Merge on Single Match
- Merge on Best Match
- Best/Single Match Minimum Quality Ratio
- Insufficient Quality Fall-Through Profile
- Load Items for Imported Records

Use Cases for MARC Order Upload form

You can add items to a selection list or purchase order and ignore the record matching options, or you can use both acquisitions and cataloging functions. In these examples, you will use both functions.

Example 1 Using the Acquisitions MARC Batch Load interface, upload MARC records to a selection list and import queue, and match queued records with existing catalog records.

In this example, an acquisitions librarian has received a batch of MARC records from a vendor. She will add the records to a selection list and a Vandelay record queue.

A cataloger will later view the queue, edit the records, and import them into the catalog.

1. Click Acquisitions → Load MARC Order Records
2. Add MARC order records to a Selection list and/or a Purchase Order. Check the box to create a purchase order if desired.
3. Select a Provider from the drop-down menu, or begin typing the code for the provider, and the field will auto-fill.
4. Select a Context Org Unit from the drop down-menu, or begin typing the code for the context org unit, and the field will auto-fill.
5. Select a Selection List from the drop down menu, or begin typing the name of the selection list. You can create a new list, or the field will auto-fill.
6. Create a new record import queue, or upload the records to an existing queue.
7. Select a Record Match Set.
8. Browse your computer to find the MARC file, and click Upload.

Upload

Create Purchase Order	<input type="checkbox"/>	
Activate Purchase Order	<input type="checkbox"/>	
Provider	<input type="text" value="APhony"/>	
Context Org Unit	<input type="text" value="MAR"/>	
Add to Selection List	<input type="text" value="Popular Fiction - 2013"/>	
Fiscal Year	<input type="text" value="2013"/>	
<hr/>		
Upload to Queue	<input type="text"/>	Or create a new queue <input type="text" value="Popular Fiction - 2013"/>
Record Match Set	<input type="text" value="isbn"/>	
Merge Profile	<input type="text"/>	
Import Non-Matching Records	<input type="checkbox"/>	Record Source <input type="text"/>
Merge On Exact Match (901c)	<input type="checkbox"/>	
Merge On Single Match	<input type="checkbox"/>	
Merge On Best Match	<input type="checkbox"/>	
Best/Single Match Minimum Quality Ratio	<input type="text" value="0.0"/>	New Record Quality / Quality of Best Match
Insufficient Quality Fall-Through Profile	<input type="text"/>	
Load Items for Imported Records	<input type="checkbox"/>	
<hr/>		
File to Upload:	<input type="text" value="P:\Testing\Acquisitions\Vandelay\5098334.mrc"/>	<input type="button" value="Browse..."/> <input type="button" value="Upload"/>

9. The processed items appear at the bottom of the screen.

Lineitems Processed 7
Vandelay Records Processed 7
Bib Records Merged/Imported 0
ACQ Copies Processed 0
Debits Encumbered 0
Real Copies Processed 0
Upload Complete!

[View Selection List](#)

[View Import Queue](#)

10 You can click the link(s) to access the selection list or the import queue. Click the link to View Selection List.

11 Look at the first line item. The line item has not yet been linked to the catalog, but it is linked to a record import queue. Click the link to the queue to examine the MARC record.

--Actions--

✓ Line Items

 [Eleven on top / Janet Evanovich.](#)
Evanovich, Janet. 0312985347 St. Martin's Paperbacks ed. 2006. St. Martin's Paperbacks, BAB
1 | [link to catalog](#) | [worksheet](#) | [requests](#) | [queue](#)

12 The batch import interface opens in a new tab. The bibliographic records appear in the queue. Records that have matches are identified in the queue. You can edit these records and/or import them into the catalog, completing the process.

Queue Popular Fiction - 2012

Queue Actions		Queue Summary		Queue Filters	
Import Selected Records	Records in Queue: 7	Limit to Records with Matches	<input type="checkbox"/>		
Import All Records	Records Imported: 0	Limit to Non-Imported Records	<input type="checkbox"/>		
View Import Items	Record Import Failures 0	Limit to Records with Import Errors	<input type="checkbox"/>		
Delete Queue	Items in Queue 0				
Copy To Bucket	Items Imported 0				
	Item Import Failures 0				

<input type="checkbox"/>	View MARC	Matches	Import Failures	Import Time	Imported As	Title of work	Author of work	Language of work	Pagination	ISBN
<input type="checkbox"/>	View MARC	Matches (1)				Eleven on top / Janet Evanovich.	Evanovich, Janet.		349 p. ;	0312985347
<input type="checkbox"/>	View MARC					Explosive eighteen / Janet Evanovich.	Evanovich, Janet.		305 p. ;	97803455277

Example 2: Using the Acquisitions MARC Batch Load interface, upload MARC records to a selection list, and use the Vandelay options to import the records directly into the catalog. The Vandelay options will enable you to match incoming records with existing catalog records.

In this example, a librarian will add MARC records to a selection list, create criteria for matching incoming and existing records, and import the matching and non-matching records into the catalog.

1. Click Acquisitions → Load MARC Order Records
2. Add MARC order records to a Selection list and/or a Purchase Order. Check the box to create a purchase order if desired.
3. Select a Provider from the drop down menu, or begin typing the code for the provider, and the field will auto-fill.
4. Select a Context Org Unit from the drop down menu, or begin typing the code for the context org unit, and the field will auto-fill.
5. Select a Selection List from the drop down menu, or begin typing the name of the selection list. You can create a new list, or the field will auto-fill.
6. Create a new record import queue, or upload the records to an existing queue.
7. Select a Record Match Set.
8. Select Merge Profile → Match-Only Merge.
9. Check the boxes adjacent to Import Non-Matching Records and Merge on Best Match.
10. Browse your computer to find the MARC file, and click Upload.

Upload

Create Purchase Order	<input type="checkbox"/>
Activate Purchase Order	<input type="checkbox"/>
Provider	<input type="text" value="APhony"/>
Context Org Unit	<input type="text" value="MAR"/>
Add to Selection List	<input type="text" value="Popular Mysteries"/>
Fiscal Year	<input type="text" value="2013"/>

Upload to Queue	<input type="text"/>	Or create a new queue	<input type="text" value="Popular Mysteries"/>
Record Match Set	<input type="text" value="isbn"/>		
Merge Profile	<input type="text" value="Match-Only Merge"/>		
Import Non-Matching Records	<input checked="" type="checkbox"/>	Record Source	<input type="text"/>
Merge On Exact Match (901c)	<input type="checkbox"/>		
Merge On Single Match	<input type="checkbox"/>		
Merge On Best Match	<input checked="" type="checkbox"/>		
Best/Single Match Minimum Quality Ratio	<input type="text" value="0.0"/>	New Record Quality / Quality of Best Match	
Insufficient Quality Fall-Through Profile	<input type="text"/>		
Load Items for Imported Records	<input type="checkbox"/>		

File to Upload:

11 Click the link to View Selection List Line items that do not match existing catalog records on title and ISBN contain the link, link to catalog. This link indicates that you could link the line item to a catalog record, but currently, no match exists between the line item and catalog records. Line items that do have matching records in the catalog contain the link, catalog.

✓ Line Items

<input type="checkbox"/>	Apple turnover murder / Joanne Fluke. Fluke, Joanne, 1943- 9780758247452 c2010. Kensington Books, BAB # 21 ⇒ link to catalog ↗ worksheet requests ⇒ queue
<input type="checkbox"/>	 Blueberry muffin murder : a Hannah Swensen mystery / Joanne Fluke. Fluke, Joanne, 1943- 157566707X c2002. Kensington Books, BAB # 22 → catalog ↗ worksheet requests ⇒ queue
<input type="checkbox"/>	 Candy cane murder. 9780758221988 2007. Kensington Books, BAB # 20 → catalog ↗ worksheet requests ⇒ queue
<input type="checkbox"/>	Carrot cake murder : a Hannah Swensen mystery with recipes / Joanne Fluke. Fluke, Joanne, 1943- 9780758210203 2008. Kensington Books, BAB # 23 ⇒ link to catalog ↗ worksheet requests ⇒ queue

12 Click the catalog link to view the line item in the catalog.

Permissions to use this Feature

IMPORT_MARC - Using batch importer to create new bib records requires the IMPORT_MARC permission (same as open-ils.cat.biblio.record.xml.import). If the permission fails, the queued record will fail import and be stamped with a new "import.record.perm_failure" import error

IMPORT_ACQ_LINEITEM_BIB_RECORD_UPLOAD - This allows interfaces leveraging the batch importer, such as Acquisitions, to create a higher barrier to entry. This permission prevents users from creating new bib records directly from the ACQ vendor MARC file upload interface.

Chapter 85. Placing purchase requests from a patron record

Patrons may wish to suggest titles for your Library to purchase. You can track these requests within Evergreen, whether or not you are using the acquisitions module for other purposes. This section describes how you can record these requests within a patron's record.

1. Retrieve the patron's record.
2. Select Other --> Acquisition Requests. This takes you to the Requests Screen.
3. The Requests Screen will show any other requests that this patron has made. You may sort the requests by clicking on the column headers.
4. To add the request, click the Create Request button.



You will need the CREATE_PURCHASE_REQUEST permission to add a request.

5. The request type field is required. Every other field is optional, although it is recommended that you enter as much information about the request as possible.
6. The Pickup Library, User, and Request Date/Time field will be filled in automatically.
7. You have the option to automatically place a hold for the patron if your library decides to purchase the item. If you'd like Evergreen to generate this hold, check the Place Hold box.
8. When you have finished entering information about the request, click the Save button.

Chapter 86. Managing patron purchase requests

Patrons may wish to suggest titles for your Library to purchase. You can track these requests within Evergreen, whether or not you are using the acquisitions module for other purposes. This section describes how you can manage these requests.

1. Go to Acquisitions → Patron Requests.
2. The Requests Screen will show any other requests that patrons have made. You may sort the requests by clicking on the column headers.
3. You can filter this screen by organizational unit or patron's barcode. There are additional filter options available if you click on Filter.
4. To remove a user filter, click on User and leave the barcode field blank.

Adding a request

You may add a patron purchase request using this screen.

1. To add the request, click the Create Request button.



You will need the CREATE_PURCHASE_REQUEST permission to add a request.

2. If you have not already filtered the search using a patron's barcode, you will be prompted to enter it before starting the request.
3. The request type field is required. Every other field is optional, although it is recommended that you enter as much information about the request as possible.
4. The Pickup Library, User, and Request Date/Time field will be filled in automatically.
5. You have the option to automatically place a hold for the patron if your library decides to purchase the item. If you'd like Evergreen to generate this hold, check the Place Hold box.
6. When you have finished entering information about the request, click the Save button.

Adding requests to selection lists

If you'd like to purchase a patron's request, follow these steps:

1. Click on the blue hyperlinked title of the patron's request.

2. Click the Add to Selection List button.
3. Fill out the requested information. You can either add it to an existing selection list or a new one.
4. After you save the record, the request's Add to Selection List button will change to a View Selection List button that allows you to view the status of this patron request at a later time.
5. You can then use your Library's typical ordering process to purchase the item your patron has requested.

Chapter 87. "Blanket" Orders

"Blanket" orders allow staff to invoice an encumbered amount multiple times, paying off the charge over a period of time. The work flow supported by this development assumes staff does not need to track the individual contents of the order, only the amounts encumbered and invoiced in bulk.

Example

1. Staff creates PO with a Direct Charge of "Popular Fiction 2015" and a charge type of "Blanket Order".
2. The amount entered for the charge equals the total amount expected to be charged over the duration of the order.
3. When a shipment of "Popular Fiction" items arrive, staff creates an invoice from the "Popular Fiction 2015" PO page and enters the amount billed/paid for the received shipment under the "Popular Fiction 2015" charge in the invoice.
4. When the final shipment arrives, staff select the Final invoice for Blanket Order option on the invoice screen to mark the PO as received and drop any remaining encumbrances to \$0.
 - a. Alternatively, if the PO needs to be finalized without creating a final invoice, staff can use the new Finalize Blanket Order option on the PO page.

More details about blanket orders

- Any direct charge using a blanket item type will create a long-lived charge that can be invoiced multiple times.
- Such a charge is considered open until its purchase order is "finalized" (received).
- "Finalizing" a PO changes the PO's state to received (assuming there are no pending lineitems on the PO) and fully dis-encumbers all blanket charges on the PO by setting the fund_debit amount to \$0 on the original fund_debit for the charge.
- Invoicing a blanket charge does the following under the covers:
 - a. Create an invoice_item to track the payment
 - b. Create a new fund_debit to implement the payment whose amount matches the invoiced amount.
- Subtract the invoiced amount from the fund_debit linked to the original blanket po_item, thus reducing the amount encumbered on the charge as a whole by the invoiced amount.
- A PO can have multiple blanket charges. E.g. you could have a blanket order for "Popular Fiction 2015" and a second charge for "Pop Fiction 2015 Taxes" to track / pay taxes over time on a blanket charge.

- A PO can have a mix of lineitems, non-blanket charges, and blanket charges.
- A blanket Invoice Item Type cannot also be a prorate type, since it's nonsensical. Blanket items are encumbered, whereas prorated items are only paid at invoice time and never encumbered.

Part IX. Cataloging

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Chapter 88. Cataloging in the Web Client

Cataloguers should use this part for understanding the cataloguing procedures used in Evergreen.

MARC Tag-table Service

The tag tables for the web staff client MARC editor are now stored in the database rather than a separate XML tooltips file as used by the XUL MARC editor. The tag-table service, which is part of the web staff client sprint 2 preview in this release, has the following features:

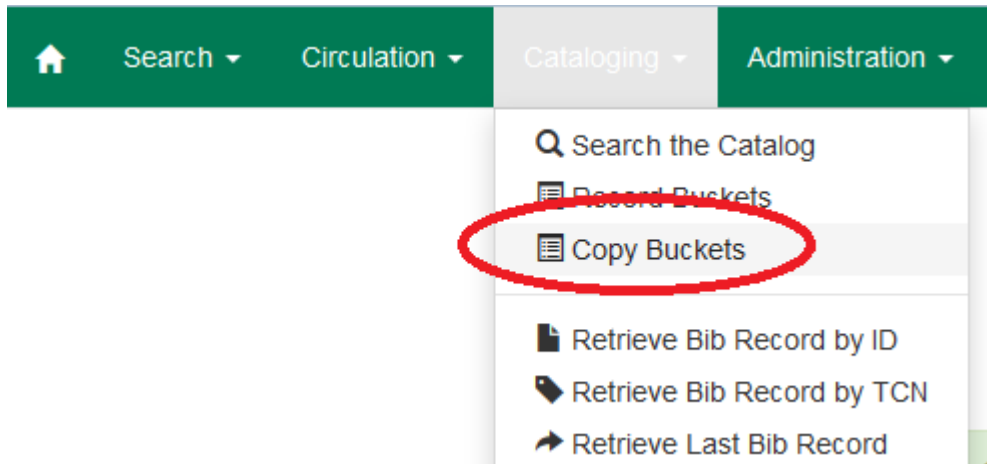
- specifies whether (sub)fields are optional or mandatory
- specifies whether (sub)fields are repeatable or not
- a coded value map can be associated with a subfield to establish a controlled vocabulary for that subfield
- MARC field and subfield definitions can be overridden by institutions further down in the organizational unit hierarchy. This allows, for example, a library to specify definitions for local MARC tags.
- values supplied by the tag-table service are used to populate values in context menus in the web staff client MARC editor.

The initial seed data for the in-database tag table is derived from the current tooltips XML file.

Chapter 89. Copy Buckets

Copy buckets are containers copy records can be put into to easily perform batch actions on. Copies stay in buckets until they are removed.

The Copy Bucket interface is accessed by going to Cataloguing → Copy Buckets.



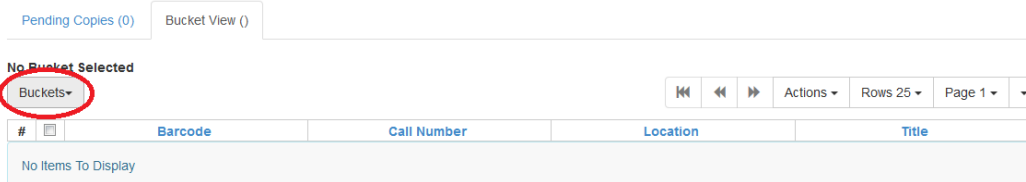
The words copy and item are used interchangeably in Evergreen.

Managing Copy Buckets

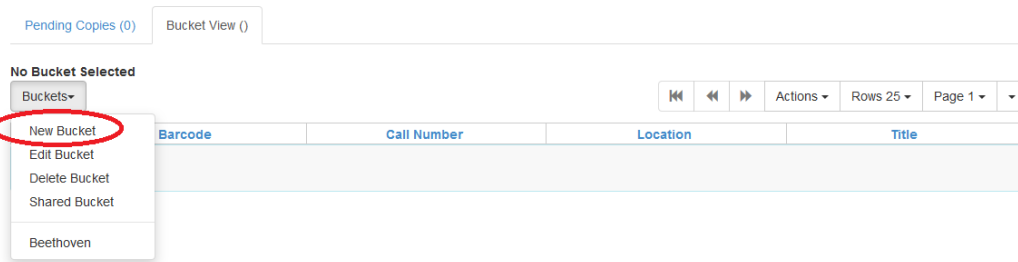
Creating Copy Buckets

Copy buckets can be created in the Copy Bucket interface as well as on the fly when adding copies to a bucket from a catalogue search or from within the Item Status interface. For information on creating buckets on the fly see Adding Copies to a Bucket (needs section ID).

1. In the Copy Bucket interface on the click Buckets in either the Pending Copies or Bucket View tab.



2. From the drop down menu select New Bucket.



3. Enter a Name and a Description (optional) for your bucket and click Create Bucket.

A screenshot of a 'Create Bucket' dialog box. The title is 'Create Bucket' with a close button (X) in the top right. The form has two main sections: 'Name' and 'Description'. The 'Name' field contains the text 'Seasonal Books'. The 'Description' field contains the text 'These items are only on the public shelves around the holiday season. The rest of tl'. Below the description field is a checkbox labeled 'Publicly Visible?'. At the bottom right, there are two buttons: 'Create Bucket' (blue) and 'Cancel' (orange).

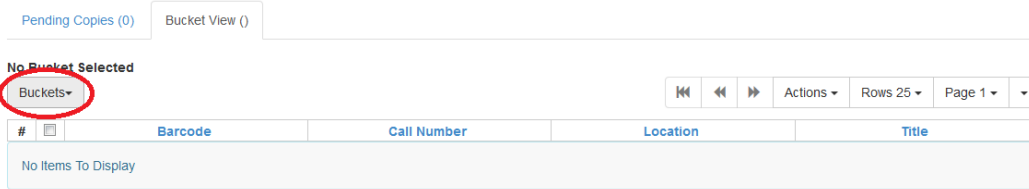
The bucket can also be set as Publicly Visible at this time.



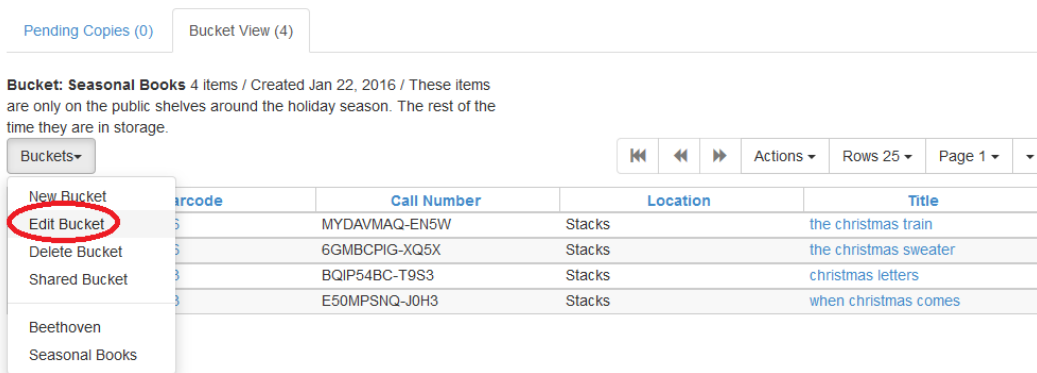
The functionality for making buckets publicly visible does not appear to be in place at this time.

Editing Copy Buckets

1. In the Copy Bucket interface click Buckets in either the Pending Copies or Bucket View tab.



- From the drop down menu select the bucket you would like to edit. The bucket will load in the interface.
- Click on Buckets.
- From the drop down menu select Edit Bucket.



- Update the desired information and click Apply Changes.

Edit Bucket

Name

Description

Publicly Visible?



The functionality for making buckets publicly visible does not appear to be in place at this time.

Sharing Copy Buckets

Finding the Bucket ID

1. With the bucket open, look at the URL for the bucket ID. Share this ID with the staff member who needs access to this bucket.

The screenshot shows a web browser window with the address bar containing the URL <https://webby.evergreencatalog.com/eg/staff/cat/bucket/copy/view/117>. The number 117 is circled in red. Below the browser, the application interface shows a navigation bar with 'Search', 'Circulation', 'Cataloging', and 'Administration' menus. The main content area has tabs for 'Pending Copies (0)' and 'Bucket View (4)'. Under 'Bucket View', it says 'Bucket: Display 4 items / Created Jan 22, 2016 / This bucket is for items currently on display.' Below this is a table with 4 rows of item data.

#	Barcode	Call Number	Location	Title
1	279997268953	IWKW9TOK-YMOO	Stacks	red rabbit
2	973123977699	IWKW9TOK-YMOO	Stacks	red rabbit
3	519811228751	BXIO9J5T-QGV5	Stacks	my friend rabbit
4	813468411058	BXIO9J5T-QGV5	Stacks	my friend rabbit

Opening a Shared Bucket

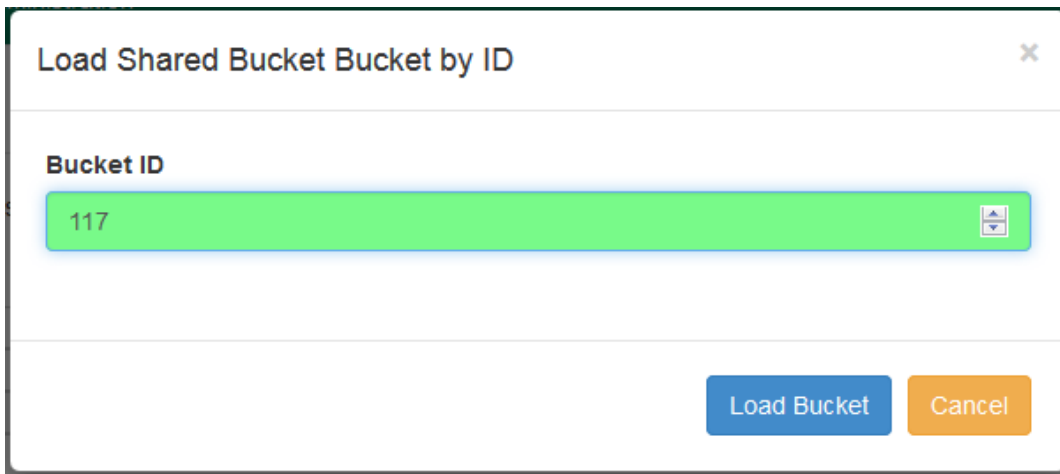
1. In the Copy Bucket interface click Buckets in either the Pending Copies or Bucket View tab.

The screenshot shows the 'Bucket View (4)' tab selected. Below the tabs, it says 'No Bucket Selected'. A dropdown menu labeled 'Buckets' is open, and the word 'Buckets' is circled in red. Below the dropdown is a table with columns for '#', 'Barcode', 'Call Number', 'Location', and 'Title'. The table is currently empty, displaying 'No Items To Display'.

2. From the drop down menu select Shared Bucket.

The screenshot shows the 'Buckets' dropdown menu open. The option 'Shared Bucket' is circled in red. Other options in the menu include 'New Bucket', 'Edit Bucket', 'Delete Bucket', and 'Seasonal Books'. The table below remains empty.

3. Enter the bucket ID and click Load Bucket.



4. The shared bucket will display and can be worked with the same as any bucket you own.

Pending Copies (0) **Bucket View (4)**

Bucket: Display 4 Items / Created Jan 22, 2016 / This bucket is for items currently on display

Buckets ▾

#	Barcode	Call Number	Location	Title
1	279997268953	IWKW9TOK-YMOO	Stacks	red rabbit
2	973123977699	IWKW9TOK-YMOO	Stacks	red rabbit
3	519811228751	BXIO9J5T-QGV5	Stacks	my friend rabbit
4	813468411058	BXIO9J5T-QGV5	Stacks	my friend rabbit

Deleting Copy Buckets

1. In the Copy Bucket interface click Buckets in either the Pending Copies or Bucket View tab.

Pending Copies (0) **Bucket View (0)**

No Bucket Selected

Buckets ▾

#	Barcode	Call Number	Location	Title
No Items To Display				

2. From the drop down menu select the bucket you would like to delete. The bucket will load in the interface.

3. Click on Buckets.

4. From the drop down menu select Delete Bucket.

Pending Copies (0) Bucket View (1)

Bucket: Beethoven 1 Item / Created Jan 22, 2016

Buckets▼

- New Bucket
- Edit Bucket
- Delete Bucket
- Shared Bucket

Beethoven
Seasonal Books

Barcode	Call Number	Location	Title
	Accession #701631	Stacks	piano music 18th 19th centuries ...

5. On the confirmation pop up click Delete Bucket.

6. Refresh your screen.

Adding Copies to a Bucket

From the Copy Bucket Interface

1. In the Copy Bucket interface click on the Pending Copies tab.

Pending Copies (0) Bucket View ()

No Bucket Selected

Buckets▼

#	Barcode	Call Number	Location	Title
No Items To Display				

2. Scan in all of the items you wish to add to the bucket.

Pending Copies (0) Bucket View (0)

Bucket: Seasonal Books 0 items / Created Jan 22, 2016 / This items are only on the public shelves around the holiday season. The rest of the time they are in storage.

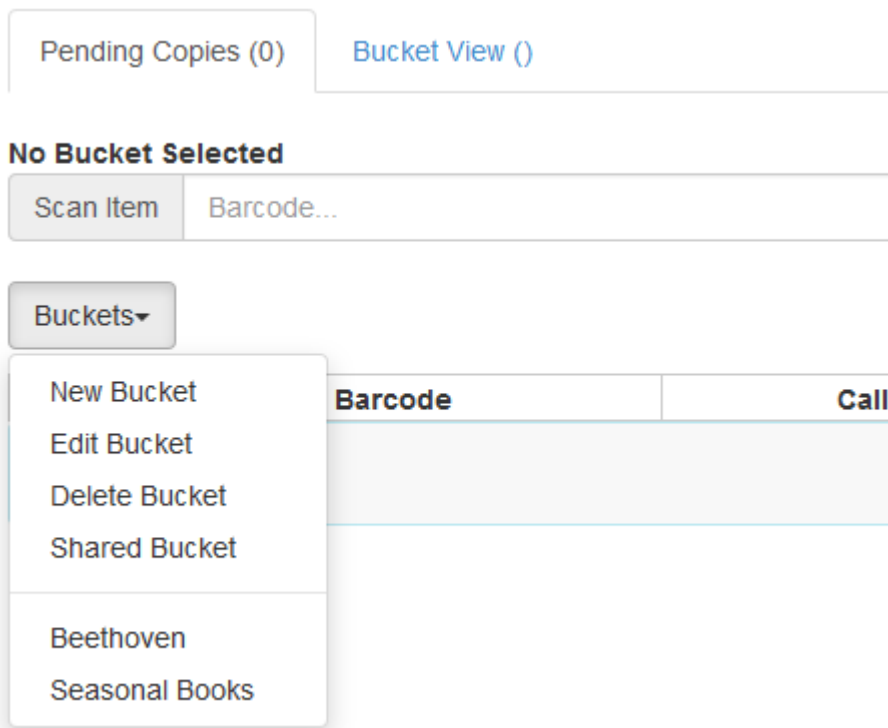
Scan Item Barcode...

Buckets▼

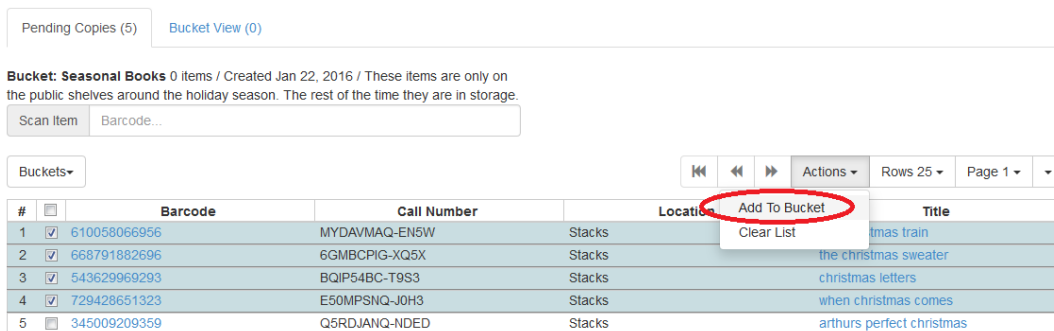
#	Barcode	Call Number	Location	Title
No Items To Display				

3. Click on Buckets.

4. From the drop down menu select the bucket you wish to add the items to. Alternatively you can create a New Bucket (link back to Copy Bucket Interface section of Creating Copy Buckets).



5. Use the check boxes to select the item(s) you wish to add to the bucket.
6. Click Actions.
7. From the drop down menu select Add To Bucket.



8. The number of items in the bucket, displayed beside the bucket name, will update as will the number on the Bucket View tab.

Pending Copies (5) [Bucket View \(4\)](#)

Bucket: Seasonal Books 4 items / Created Jan 22, 2016 / These items are only on the public shelves around the holiday season. The rest of the time they are in storage.

Scan Item Barcode...

Buckets-

⏪ ⏩ Actions Rows 25 Page 1

#	<input type="checkbox"/>	Barcode	Call Number	Location	Title
1	<input checked="" type="checkbox"/>	610058066956	MYDAVMAQ-EN5W	Stacks	the christmas train
2	<input checked="" type="checkbox"/>	668791882696	6GMBCPIG-XQ5X	Stacks	the christmas sweater
3	<input checked="" type="checkbox"/>	543629969293	BQIP54BC-T9S3	Stacks	christmas letters
4	<input checked="" type="checkbox"/>	729428651323	E50MPSNQ-J0H3	Stacks	when christmas comes
5	<input type="checkbox"/>	345009209359	Q5RDJANQ-NDED	Stacks	arthurs perfect christmas



Once you have added your selected items to a bucket you can deselect them, select other items on your pending list, and add those items to a different bucket.

From a Catalogue Search

1. Retrieve the title through a catalogue search.
2. If it is not your default view click on the Holdings View tab.

Record Summary

Title: Piano Music (18th-19th Centuries) - Beethoven, L. van Author: Bashkirov, Dmitri Pub Date: [2010] Database ID: 701631

Start Previous Next End Back To Results Add To Bucket Mark for

OPAC View MARC Edit MARC View View Holds Monograph Holdings View **Holdings View** Linked Items

EVERGREEN Copybuckets Sitka Messages My Account My Lists Logout

0 Checked Out 0 On Hold 0 Ready for Pickup \$0.00 Fines

Search the Catalog Advanced Search Browse the Catalog

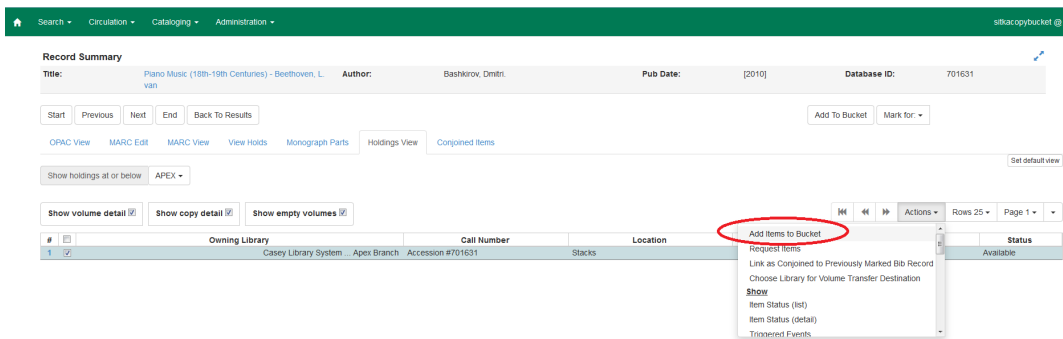
Search: beethoven Type: Keyword Format: All Formats Library: Apex Branch Search

Search Results Showing item 1 of 70

Piano Music (18th-19th Centuries) - Beethoven, L. van / CHOPIN, F. / LISZT, F. / SHOSTAKOVICH, D. / RACHMANINOV, S. (Portraits, Vol. 2) [electronic resource].

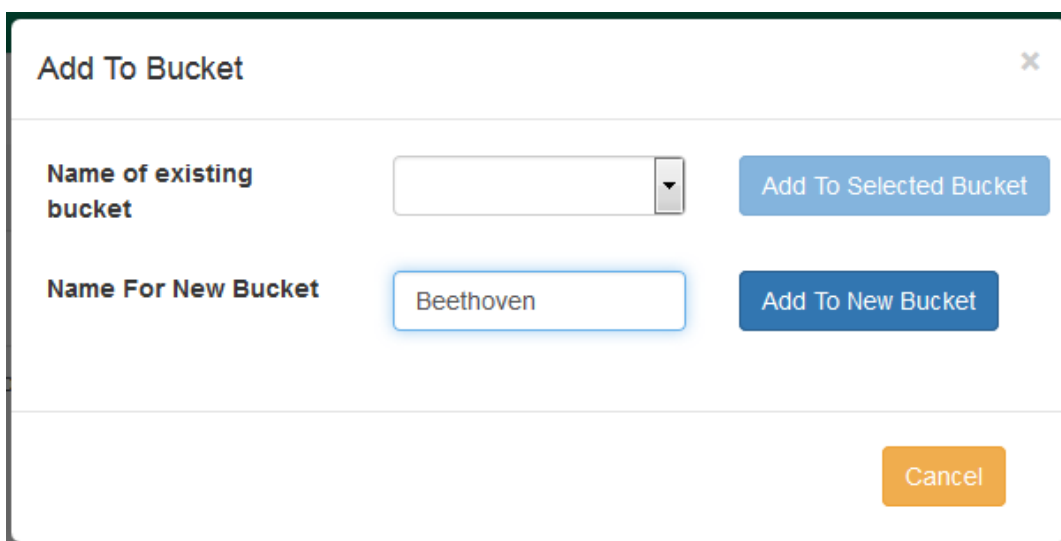
Bashkirov, Dmitri (Added Author) Beethoven, Ludwig van, 1770-1827 (Added Author) Chopin, Frédéric, 1810-1849 (Added Author) Kladouch, David, 1985- (Added Author) Kopouzhine, David, (Added Author) Loid, Franck, 1811-1896 (Added Author) Rachmaninoff, Sergei, 1873-1943 (Added Author) Shostakovich, Dmitri Dmitrievich, 1906-1975 (Added Author) Navos Digital Services, (Added Author)

3. Use the check boxes to select the item(s) you would like to add to the bucket.
4. Click Actions.
5. From the drop down menu select Add Items to Bucket



6. Enter a name for your bucket or select an existing from the drop down menu.

7. Click Add To New Bucket or Add To Selected Bucket.



8. Repeat steps 1 through 7 to add additional copies.

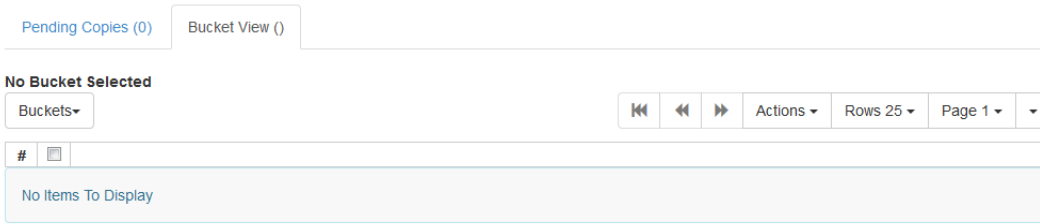
From the Item Status Interface



Functionality currently missing.

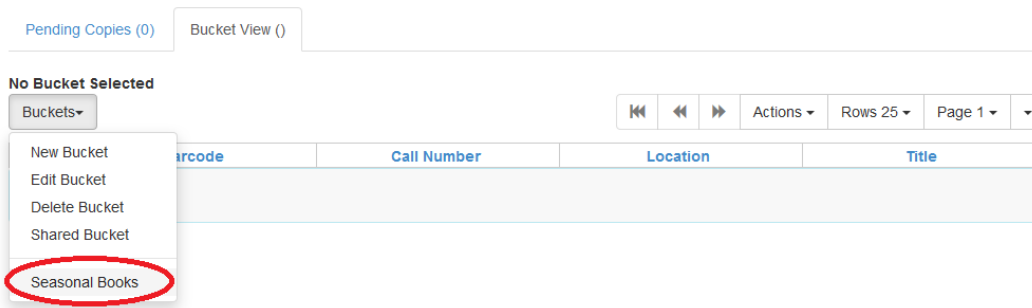
Removing Copies from a Bucket

1. Open the Copy Bucket interface. By default you are on the Bucket View tab.



2. Click on Buckets.

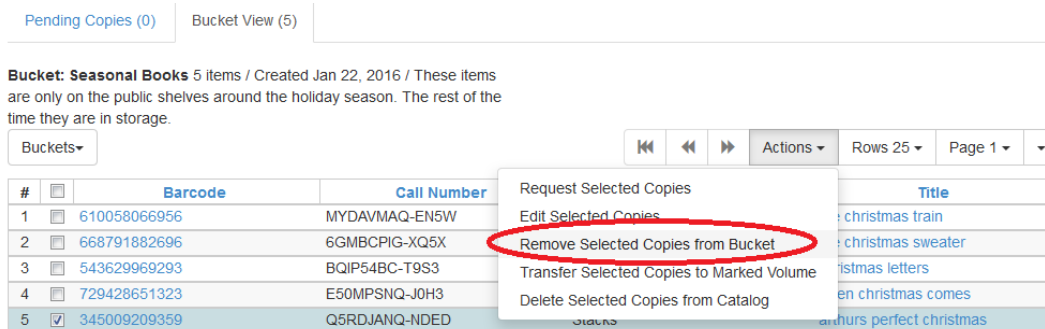
3. From the drop down menu select the bucket containing the item(s) you would like to remove.



4. Use the check boxes to select the item(s) you wish to remove from the bucket.

5. Click Actions.

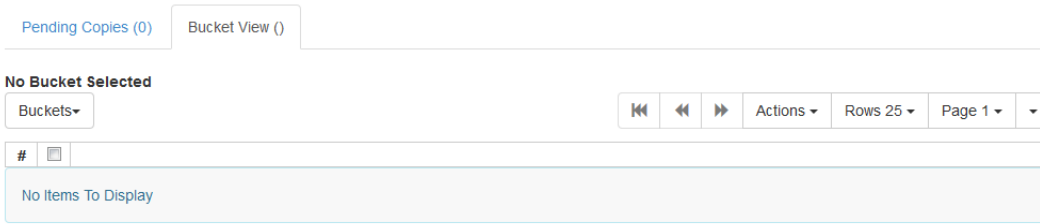
6. From the drop down menu select Remove Selected Copies from Bucket.



7. Your bucket will reload and the selected item(s) will no longer be in the bucket.

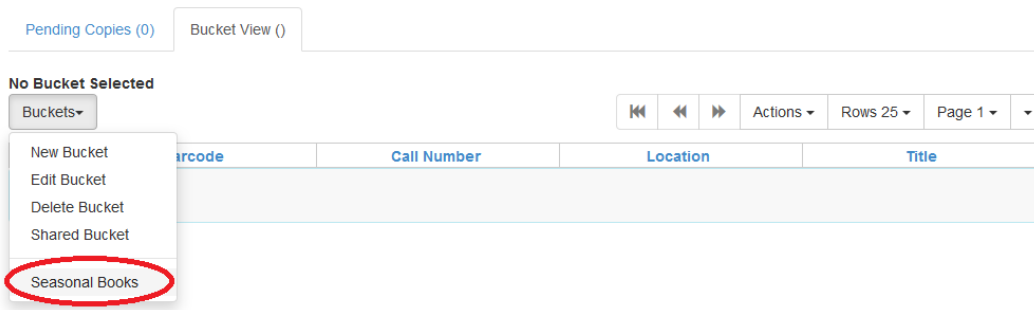
Editing Copies in a Bucket

1. Open the Copy Bucket interface. By default you are on the Bucket View tab.



2. Click on Buckets.

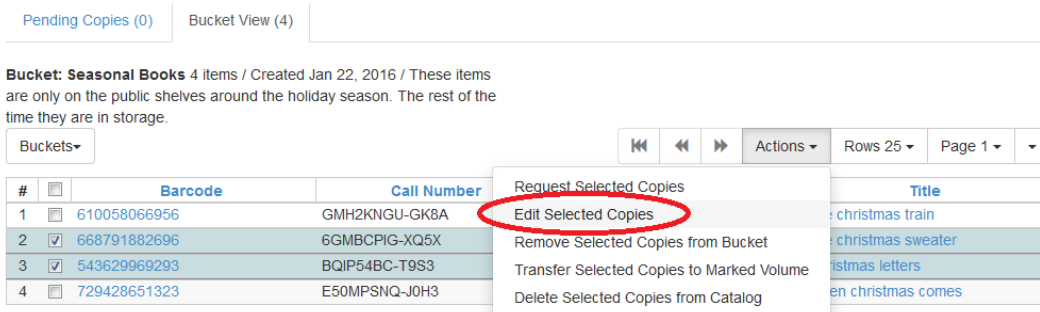
3. From the drop down menu select the bucket containing the item(s) you would like to edit.



4. Use the check boxes to select the item(s) you wish to edit.

5. Click Actions.

6. From the drop down menu select Edit Selected Copies.



7. The Copy Editor will open in a new tab. Make your edits and then click Save and Exit.

Edit Copy Templates Defaults

Show Volume/Copy Details Hide Copy Attributes

Working Copies Completed Copies

Store Selected **Save & Exit**

<input checked="" type="checkbox"/>	Barcode	Created	Activated	Call Number
<input checked="" type="checkbox"/>	66879188...	10/19/10	10/19/10	6GMBCPI...
<input checked="" type="checkbox"/>	54362996...	10/19/10	10/19/10	BQIP54BC...

Template Apply Clear

Circulate? Yes No Status Filter by Library

Circulation Library Reference? Yes No Equinox Consortium : Genre

Sheaving Location OPAC Visible? Yes No Equinox Consortium : Collection Code

Special Collections Equinox Consortium : nonfiction subject

Anex Branch : Inventoried

8. Your items have been updated.

Pending Copies (0) Bucket View (4)

Bucket: Seasonal Books 4 items / Created Jan 22, 2016 / These items are only on the public shelves around the holiday season. The rest of the time they are in storage.

Buckets

#	<input type="checkbox"/>	Barcode	Call Number	Location	Title
1	<input type="checkbox"/>	610058066956	GMH2KNGU-GK8A	Stacks	the christmas train
2	<input checked="" type="checkbox"/>	668791882696	6GMBCPIG-XQ5X	Special Collections	the christmas sweater
3	<input checked="" type="checkbox"/>	543629969293	BQIP54BC-T9S3	Special Collections	christmas letters
4	<input type="checkbox"/>	729428651323	E50MPSNQ-J0H3	Stacks	when christmas comes

Deleting Copies from the Catalogue

1. Open the Copy Bucket interface. By default you are on the Bucket View tab.

Pending Copies (0) Bucket View ()

No Bucket Selected

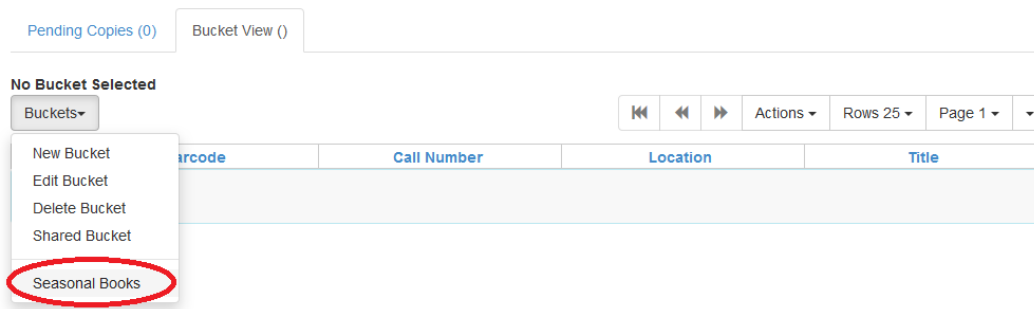
Buckets

Actions Rows 25 Page 1

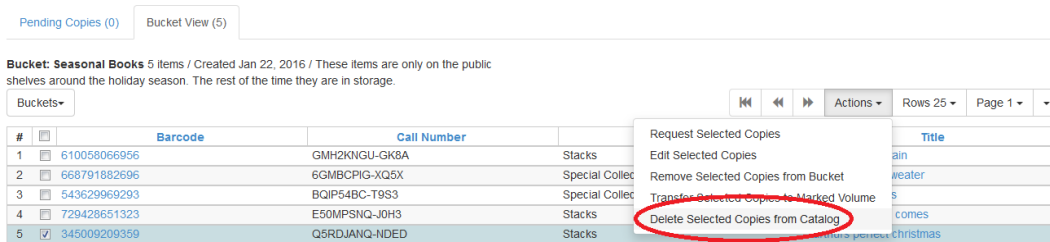
#	<input type="checkbox"/>
No Items To Display	

2. Click on Buckets.

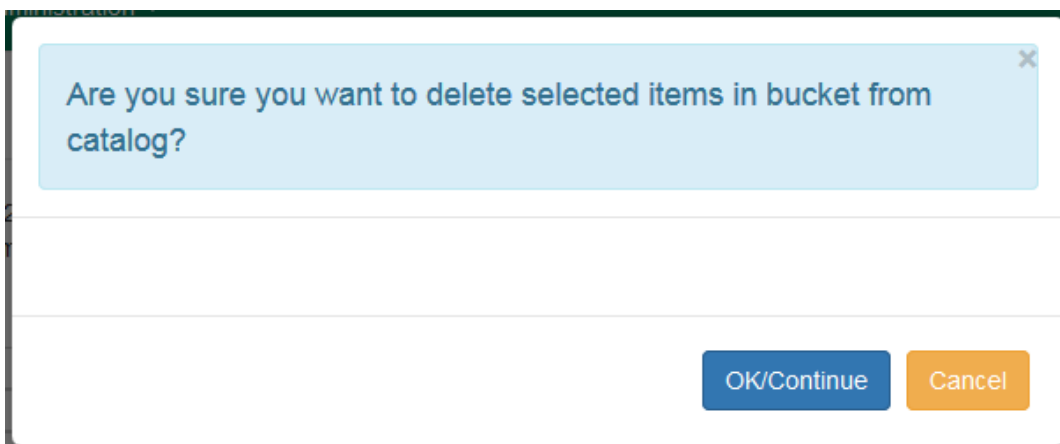
3. From the drop down menu select the bucket containing the item(s) you would like to delete from the catalogue.



4. Use the check boxes to select the item(s) you wish to delete.
5. Click Actions.
6. From the drop down menu select Delete Selected Copies from Catalog.



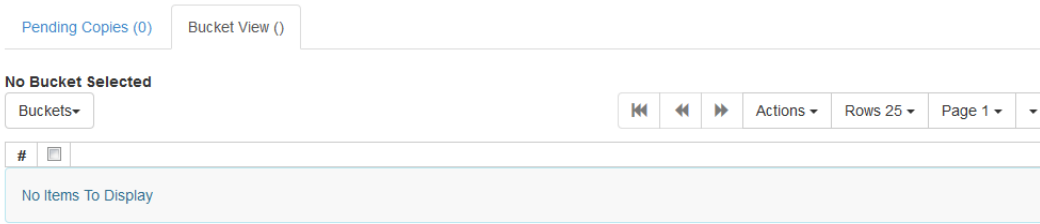
7. On the confirmation pop up click OK/Continue.



8. The items have been deleted from the catalogue.

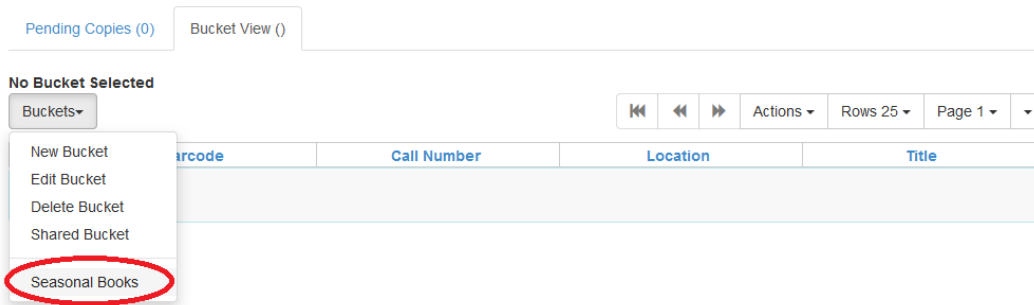
Placing Holds on Copies in a Bucket

1. Open the Copy Bucket interface. By default you are on the Bucket View tab.



2. Click on Buckets.

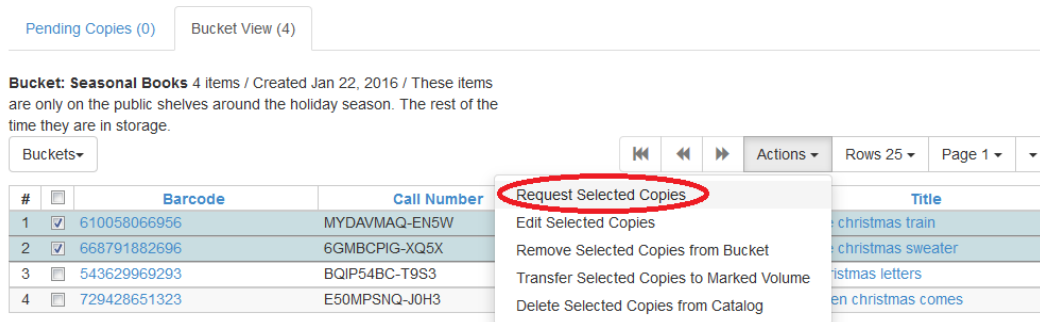
3. From the drop down menu select the bucket containing the item(s) you would like to place a hold on.



4. Use the check boxes to select the item(s) you wish to delete.

5. Click Actions.

6. From the drop down menu select Request Seleted Copies.



7. Enter the barcode for the patron who the hold is for. By default the system enters the barcode of the account logged into the client.

Request Items

User Barcode: sitkacopybucket Sitka, Copybuckets

Hold Type: Copy Hold Pickup Lib: APEX

Number of items: 2 OK Cancel

8. Select the correct Pickup Library.

9. Select the correct Hold Type. (More explanation of the hold types needed here.)

10. Click OK.

11. The hold has been placed.

Transferring Copies to Volumes

1. Retrieve the title through a catalogue search.

2. If it is not your default view click on the Holdings View tab.

Record Summary

Title: Piano Music (18th-19th Centuries) - Beethoven, L. van Author: Bashkrov, Dmitri Pub Date: [2010] Database ID: 701631

Start Previous Next End Back To Results Add To Bucket Mark for ▾

OPAC View MARC Edit MARC View View Holds Monograph Files **Holdings View** Copied Items

EVERGREEN Copybuckets Sitka Messages My Account My Lists Logout

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog Advanced Search Browse the Catalog

Search: beethoven Type: Keyword Format: All Formats Library: Apex Branch Search

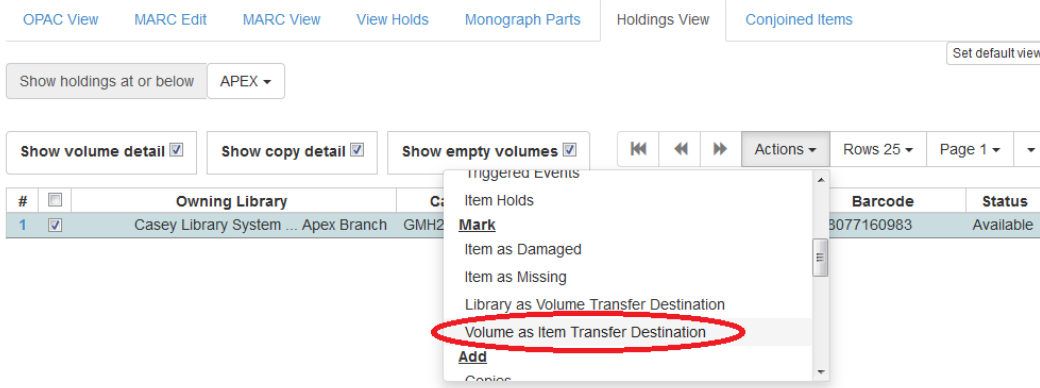
Search Results Showing items 1 of 70 Next >

Piano Music (18th-19th Centuries) - Beethoven, L. van / CHOPIN, F. / LISZT, F. / SHOSTAKOVICH, D. / RACHMANINOV, S. (Portraits, Vol. 2) [electronic resource].
 Bashkrov, Dmitri (Added Author) Beethoven, Ludwig van, 1770-1827 (Added Author) Chopin, Frédéric, 1810-1849 (Added Author) Kradouch, David, 1985- (Added Author) Kopoukhine, David, (Added Author) Last, Franz, 1811-1886 (Added Author) Rachmaninoff, Sergei, 1873-1943 (Added Author) Shostakovich, Dmitri Dmitrievich, 1906-1975 (Added Author) Ixvos Digital Services, (Added Author)

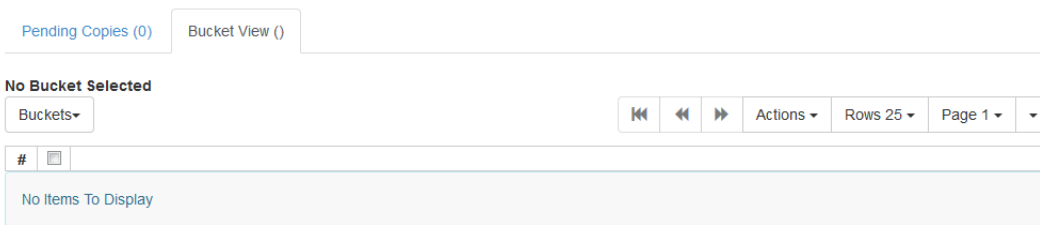
3. Use the check boxes to select the volume you would like to transfer the item(s) to.

4. Click Actions.

5. From the drop down menu select Volume as Item Transfer Destination

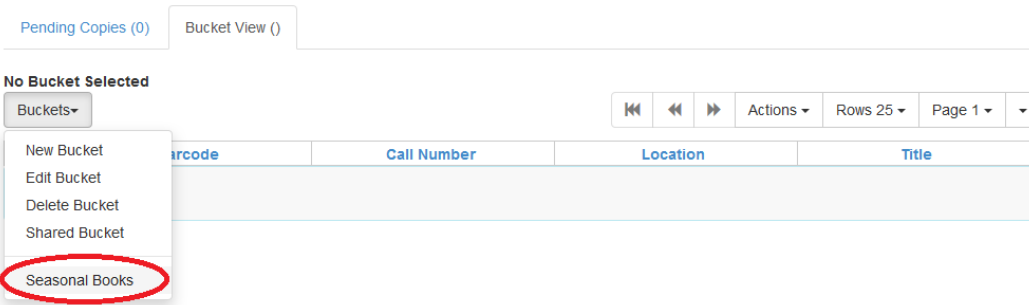


6. Open the Copy Bucket interface. By default you are on the Bucket View tab.



7. Click on Buckets.

8. From the drop down menu select the bucket containing the item(s) you would like to transfer to the volume.



9. Use the check boxes to select the item(s) you wish to transfer.

10. Click Actions.

11. From the drop down menu select Transfer Selected Copies to Marked Volume.

Pending Copies (0) Bucket View (4)

Bucket: Seasonal Books 4 items / Created Jan 22, 2016 / These items are only on the public shelves around the holiday season. The rest of the time they are in storage.

Buckets ▾

⏪ ⏩ Actions ▾ Rows 25 ▾ Page 1 ▾

#	<input type="checkbox"/>	Barcode	Call Number	Title
1	<input checked="" type="checkbox"/>	610058066956	MYDAVMAQ-EN5W	christmas train
2	<input type="checkbox"/>	668791882696	6GMBCPIG-XQ5X	christmas sweater
3	<input type="checkbox"/>	543629969293	BQIP54BC-T9S3	christmas letters
4	<input type="checkbox"/>	729428651323	E50MPSNQ-J0H3	when christmas comes

- Request Selected Copies
- Edit Selected Copies
- Remove Selected Copies from Bucket
- Transfer Selected Copies to Marked Volume**
- Delete Selected Copies from Catalog

12The item(s) is transferred.

OPAC View MARC Edit MARC View View Holds Monograph Parts Holdings View Conjoined Items

Show holdings at or below APEX ▾

Set default view

Show volume detail Show copy detail Show empty volumes

⏪ ⏩ Actions ▾ Rows 25 ▾ Page 1 ▾

#	<input type="checkbox"/>	Owning Library	Call Number	Location	Copy #	Barcode	Status
1	<input type="checkbox"/>	Casey Library System ... Apex Branch	GMH2KNGU-GK8A	Stacks		610058066956	Available
2	<input type="checkbox"/>	Apex Branch	GMH2KNGU-GK8A	Stacks		718077160983	Available

Chapter 90. Working with the MARC Editor

You can use the MARC Editor to edit MARC fields, sub-fields, and indicators.

Editing MARC Records

1. Retrieve the record.
2. MARC Edit.
3. The MARC record will display.
4. Select viewing and editing options, if desired.
 - Stack subfields to display each subfield on its own line.
 - Flat-Text Editor switches to a plain-text (menmonic) MARC format. This format can be useful when copying and pasting multiple lines. It also allows the use of tools like MarcEdit (<http://marcedit.reeset.net/>). Unclick the box to switch back.
 - Note that you can use a backslash character as a placeholder in the flat text editor's indicators and fixed-length fields.
 - Add Item allows attaching items quickly with call number and barcode. When Save is clicked, the copy editor will open. NOTE: Browser pop-up blockers will prevent this, please allow pop-ups.
5. Make changes as desired.
 - Right click into a tag field to add/remove rows or replace tags.
 - To work with the data in a tag or indicator, click or Tab into the required field. Right click to view valid tags or indicators.



You can navigate the MARC Editor using keyboard shortcuts. Click Help to see the shortcut menu from within the MARC Editor.

6. When finished, click Save. The record will remain open in the editor. You can close the browser window or browser tab. Or you can switch to another view from the navigation near the top (for example to view it as it appears in the OPAC choose OPAC View).

MARC Record Leader and MARC fixed field 008

You can edit parts of the leader and the 008 field in the MARC Editor via the fixed field editor box displayed above the MARC record.

To edit the MARC record leader

1. Retrieve and display the appropriate record in MARC Edit view.
2. Click into any box displayed in the fixed field editor.
3. Press Tab or use the mouse to move between fields.
4. Click Save.
5. The OPAC icon for the appropriate material type will display.

OPAC icons for text, moving pictures and sound rely on correct MARC coding in the leader, 007, and 008, as do OPAC search filters such as publication date, item type, or target audience.

MARC Fixed Field Editor Right-Click Context Menu Options

The MARC Fixed Field Editor provides suggested values for select fixed fields based on the record type being edited. Users can right-click on the value control for a fixed field and choose the appropriate value from the menu options. The Evergreen database contains information from the Library of Congress's MARC 21 format standards that includes possible values for select fixed fields. The right-click context menu options are available for fixed fields whose values are already stored in the database. Fixed fields that do not contain possible values in the database, the user will receive the default web browser menu (such as cut, copy, paste, etc.).

To Access the MARC Fixed Field Editor Right-Click Context Menu Options:

1. Within the bibliographic record that needs to be edited, select MARC Edit.
2. Make sure that the Flat-Text Editor checkbox is not selected and that you are not using the Flat-Text Editor interface.
3. Right-click on the value control for the fixed field that needs to be edited.

Type	a	ELvl	l			Audn	c	Ctrl		Lang	eng
BLvl	m	Form		Conf	0	Biog		MRec		Ctry	nyu
		Cont		GPub		LitF	1	Indx	0		
Desc	a	Ills	a	Fest	0	DtSt	r	Date1	2002	Date2	2000

4. Select the appropriate value for the fixed field from the menu options.

Type	a	ELvl	i	Audn	
BLvl	m	Form		Conf	0
		Cont			
Desc	a	Ills	a		

LDR	01465cam a2200361Ia
001	700844
003	CONS
005	20170502165542.0
008	020801r20022000nyua

d: Microfiche
 c: Microopaque
 d: Large print
 f: Braille
 o: Online
 q: Direct electronic
r: Regular print reproduction
 s: Electronic

5. Continue editing the MARC record, as needed. Once you are finished editing the record, click Save.

Changing the values in the fixed fields will also update the appropriate position in the Leader or 008 Field and other applicable fields (such as the 006 Field).

Type	a	ELvl	i	Audn		Ctrl		Lang	eng
BLvl	m	Form	i	Conf	0	Biog		MRec	
		Cont		GPub		LitF	1	Indx	0
Desc	a	Ills	a	Fest	0	DtSt	r	Date1	2002
								Date2	2000

LDR	01465cam a2200361Ia 4500
001	700844
003	CONS
005	20170502165542.0
008	020801r20022000nyua r 000 1 eng d

MARC Editor users retain the option of leaving the fixed field value blank or entering special values (such as # or |).



It may be necessary for MARC Editor users to first correctly pad the fixed fields to their appropriate lengths before making further modifications to the fixed field values.

Administration The Evergreen database already contains information from the Library of Congress's MARC 21 format standards that includes possible values for select fixed fields. Users may also add values to these and other fixed fields through the MARC Coded Value Maps interface. Once new values are added, the right-click context menu for the selected fixed field will display those values in the MARC Editor for any Record Type that utilizes that fixed field. There are three relevant tables that contain the values that display in the fixed field context menu options:

1. config.marc21_ff_pos_map describes, for the given record type, where a fixed field is located, its start position, and its length.

2. config.coded_value_map defines the set of valid values for many of the fixed fields and the translatable, human-friendly labels for them.
3. config.record_attr_definition links together the information from the config.marc21_ff_pos_map and config.coded_value_map tables.


MARC 007 Field Physical Characteristics Wizard

The MARC 007 Field Physical Characteristics Wizard enables catalogers to interact with a database wizard that leads the user step-by-step through the MARC 007 field positions. The wizard displays the significance of the current position and provides dropdown lists of possible values for the various components of the MARC 007 field in a more user-friendly way.

To Access the MARC 007 Field Physical Characteristics Wizard for a Record that Does Not Already Contain the 007 Field (i.e. Creating the 007 Field from Scratch):

1. Within the bibliographic record that needs to be edited, select MARC Edit.
2. Make sure that the Flat-Text Editor checkbox is not selected and that you are not using the Flat-Text Editor interface.
3. Right-click in the MARC field column.

Type	a	ELvl	l			Audn		Ctrl		Lang	eng
BLvl	m	Form	r	Conf	0	Biog		MRec		Ctry	nyu
		Cont		GPub		LitF	1	Indx	0		
Desc	a	Ills	a	Fest	0	DtSt	r	Date1	2002	Date2	2000

LDR	01465cam a2200361Ia 4500
001	700844
003	CONS
005	20170502165542.0
008	020801r20022000nyua r 000 1 eng d
010	‡o 50279560
020	‡a 0439139600 (pbk.) : ‡c \$8.99
035	‡9 AEX-1367
035	‡a (OCoLC)50279560
040	‡a OCO ‡c OCO ‡d MPA
090	‡a PR6068.095 ‡b .H364 2002
099	‡a L.R. ‡a Ro
100	1 ‡a Rowling, J. K. ‡0 (CONS)12584 

4. Click Add/Replace 007. The 007 row will appear in the record.
5. Click the chain link icon to the right of the field.

Type	a	ELvl	l			Audn	c
BLvl	m	Form		Conf	0	Biog	
		Cont		GPub		LitF	1
Desc	a	Ills	a	Fest	0	DtSt	r

LDR	01465cam a2200361Ia 4500						
001	700844						
003	CONS						
005	20170502165542.0						
007							
008	020801r	20022000nyua	c	000	1	eng	d



6. Click Physical Characteristics Wizard.

The MARC 007 Field Physical Characteristics Wizard will open.

Using the Physical Characteristics Wizard:

As the user navigates through the wizard, each position will display its corresponding label that describes the significance of that position. Each position contains a selection of dropdown choices that list the possible values for that particular position. When the user makes a selection from the dropdown options, the value for that position will also change.

The first value defines the Category of Material. Users select the Category of Material for the given record by choosing an option from the Category of Material? dropdown menu. The choices within the remaining character positions will be appropriate for the Category of Material selected.

Once the Category of Material is selected, click Next.

Evergreen will display the result of each selection in the preview above. The affected character will be in red.

Physical Characteristics Wizard



007 Value

sg dz

SMD

Sound cartridge ▾

Previous

Next

Save

Cancel

By clicking either the Previous or Next buttons, the user may step forward and backward, as needed, through the various positions in the 007 field.

Once the user enters all of the applicable values for the 007 field and is ready to exit the wizard, click Save.

Physical Characteristics Wizard



007 Value

sg buud nd

Capture and storage

Digital storage ▾

Previous

Next

Save

Cancel

All of the values selected will be stored and displayed within the 007 field of the bibliographic record.

Type	a	ELvl	I			Audn	c	Ctrl		Lang	eng
BLvl	m	Form		Conf	0	Biog		MRec		Ctry	nyu
		Cont		GPub		LitF	1	Indx	0		
Desc	a	Ills	a	Fest	0	DtSt	r	Date1	2002	Date2	2000

LDR	01465cam a2200361Ia 4500										
001	700844										
003	CONS										
005	20170502165542.0										
007	sg	buud	nd								
008	020801r	20022000nyua	c	000	1	eng	d				
010			‡o	50279560							

Continue editing the MARC record, as needed. Once the user is finished editing the record, click Save.

Record Type	BKS	Select a Source	Validate	Save	Delete	Help
-------------	-----	-----------------	----------	------	--------	------

Administration

The information driving the MARC 007 Field Physical Characteristics Wizard is already a part of the Evergreen database. This data can be customized by individual sites and / or updated when the Library of Congress dictates new values or positions in the 007 field. There are three relevant tables where the information that drives the wizard is stored:

1. config.marc21_physical_characteristic_type_map contains the list of materials, or values, for the positions of the 007 field.
2. config.marc21_physical_characteristic_subfield_map contains rows that list the meaning of the various positions in the 007 field for each Category of Material.
3. config.marc21_physical_characteristic_value_map lists all of the values possible for all of the positions in the config.marc21_physical_characteristic_subfield_map table.

Chapter 91. Batch Importing MARC Records

The cataloging module includes an enhanced MARC Batch Import interface for loading MARC (and MARCXML) records. In general, it can handle batches up to 5,000 records without a problem. This interface allows you to specify match points between incoming and existing records, to specify MARC fields that should be overlaid or preserved, and to only overlay records if the incoming record is of higher quality than the existing record. Records are added to a queue where you can apply filters that enable you to generate any errors that may have occurred during import. You can print, email or export your queue as a CSV file.

Permissions

To use match sets to import records, you will need the following permission:

ADMIN_IMPORT_MATCH_SET

Record Display Attributes

This feature enables you to specify the tags and subfields that will display in records that appear in the import queue.

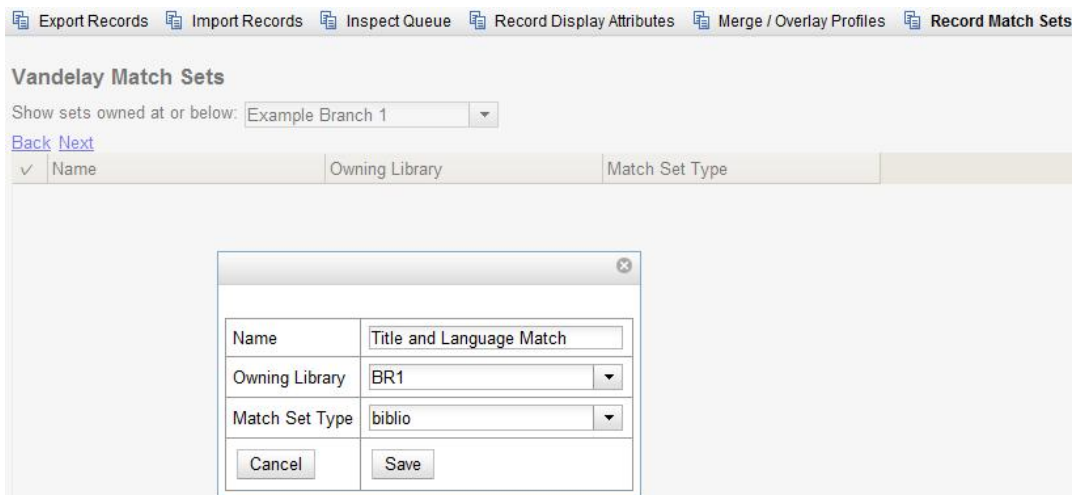
Record Match Sets

This feature enables you to create custom match points that you can use to accurately match incoming records with existing catalog records.

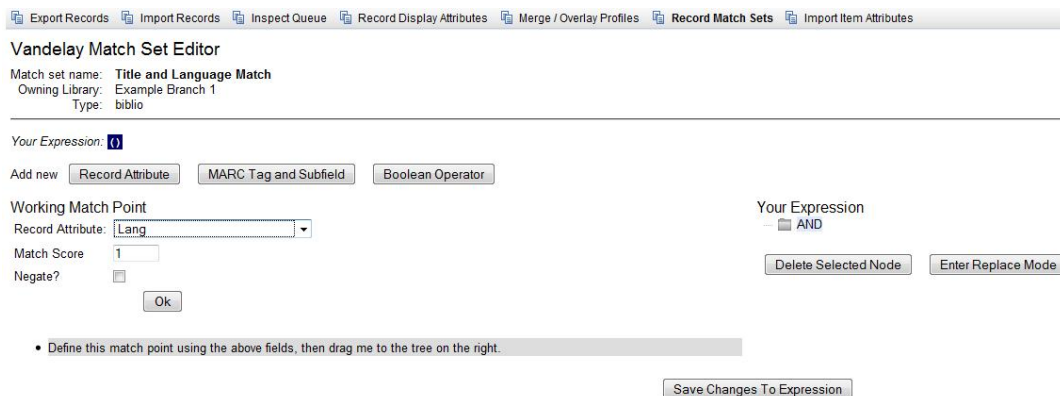
Creating a Match Set

In this example, to demonstrate matching on record attributes and MARC tags and subfields, we will create a record match set that defines a match based on the title of the record, in either the 240 or 245, and the fixed field, Lang. You can add multiple record attributes and MARC tags to customize a record match set.

1. Click Cataloging → MARC Batch Import/Export.
2. Create a new record match set. Click Record Match Sets → New Match Set.
3. Enter a name for the record match set.
4. Select an Owning Library from the drop down menu. Staff with permissions at this location will be able to use this record match set.
5. Select a Match Set Type from the drop down menu. You can create a match set for authority records or bibliographic records.
6. Click Save.



7. The screen will refresh to list the record match set that you created. Click the link to the record match set.
8. Create an expression that will define the match points for the incoming record. You can choose from two areas to create a match: Record Attribute or MARC Tag and Subfield. You can use the Boolean operators AND and OR to combine these elements to create a match set.
9. Select a Record Attribute from the drop-down menu.
10. Enter a Match Score. The Match Score indicates the relative importance of that match point as Evergreen evaluates an incoming record against an existing record. You can enter any integer into this field. The number that you enter is only important as it relates to other match points. Recommended practice is that you create a match score of one (1) for the least important match point and assign increasing match points to the power of 2 to working points in increasing importance.
11. Check the Negate? box if you want to negate the match point. Checking this box would be the equivalent of applying a Boolean operator of NOT to the match point.



12. Click Ok.
13. Drag the completed match point under the folder with the appropriately-named Boolean folder under the Expression tree.

Vandelay Match Set Editor

Match set name: **Title and Language Match**
Owning Library: Example Branch 1
Type: biblio

Your Expression: **()**

Add new

Working Match Point
Record Attribute: Lang
Match Score: 1
Negate?

Your Expression
AND

• item_lang / Lang | Match score 1

The match point will nest underneath the folder in the Expression tree.

Vandelay Match Set Editor

Match set name: **Title and Language Match**
Owning Library: Example Branch 1
Type: biblio

Your Expression: **(item lang)**

Add new

Working Match Point
Choose from among the three buttons above to add a new match point.

Your Expression
AND
item_lang / Lang | Match score 1

14 Enter another Boolean Operator to further refine your match set.

15 Click Boolean Operator.

16 Select the OR operator from the drop down menu.

17 Click Ok.

18 Drag the operator to the expression tree.

Your Expression

AND
item_lang / Lang | Match score 1
OR

19 Click MARC Tag and Subfield.

20 Enter a MARC tag on which you want the records to match.

21 Enter a subfield on which you want the records to match.

22 Enter a Match Score. The Match Score indicates the relative importance of that match point as Evergreen evaluates an incoming record against an existing record. You can enter any integer into this field. The number that you enter is only important as it relates to other match points. Recommended practice is that you create a match score of one (1) for the least important match point and assign increasing match points to the power of 2 to working points in increasing importance.

23 Check the Negate? box if you want to negate the match point. Checking this box would be the equivalent of applying a Boolean operator of NOT to the match point.

24 Click Ok.

Vandelay Match Set Editor
Match set name: Title and Language Match
Owning Library: Example Branch 1
Type: biblio

Your Expression: (item_lang AND ())

Add new: Record Attribute | MARC Tag and Subfield | Boolean Operator

Working Match Point
Tag: 245
Subfield: a
Match Score: 1
Negate?
Ok

Your Expression
AND
item_lang / Lang | Match score 1
OR

Delete Selected Node | Enter Replace Mode

• Define this match point using the above fields, then drag me to the tree on the right.

Save Changes To Expression

25 Drag the completed match point under the folder with the appropriately-named Boolean folder under the Expression tree. The Expression will build across the top of the screen.

26 Add additional MARC tags or record attributes to build the expression tree.

27 Click Save Changes to Expression.

Vandelay Match Set Editor
Match set name: Title and Language Match
Owning Library: Example Branch 1
Type: biblio

Your Expression: (item_lang AND (240 #a OR 245 #a))

Add new: Record Attribute | MARC Tag and Subfield | Boolean Operator

Working Match Point
Choose from among the three buttons above to add a new match point.
Tag: 240
Subfield: a
Match Score: 1
Negate?
Ok

Your Expression
AND
item_lang / Lang | Match score 1
OR
240 #a | Match score 1
245 #a | Match score 1

Delete Selected Node | Enter Replace Mode

Save Changes To Expression

Replace Mode

Replace Mode enables you to replace an existing part of the expression tree with a new record attribute, MARC tag, or Boolean operator. For example, if the top of the tree is AND, in replace mode, you could change that to an OR.

1. Create a working match point.

2. Click Enter replace mode.
3. Highlight the piece of the tree that you want to replace.
4. Drag the replacement piece over the highlighted piece.
5. Click Exit Replace Mode.

Quality Metrics

1. Set the Quality Metrics for this Match Set. Quality metrics are used to determine the overall quality of a record. Each metric is given a weight and the total quality value for a record is equal to the sum of all metrics that apply to that record. For example, a record that has been cataloged thoroughly and contains accurate data would be more valuable than one of poor quality. You may want to ensure that the incoming record is of the same or better quality than the record that currently exists in your catalog; otherwise, you may want the match to fail. The quality metric is optional.
2. You can create quality metrics based on the record attribute or the MARC Tag and Subfield.
3. Click Record Attribute.
4. Select an attribute from the drop down menu.
5. Enter a value for the attribute.
6. Enter a match score. You can enter any integer into this field. The number that you enter is only important as it relates to other quality values for the current configuration. Higher scores would indicate increasing quality of incoming records. You can, as in the expression match score, increase the quality points by increasing subsequent records by a power of 2 (two).
7. Click Ok.

Quality Metrics for this Match Set

Record Attribute:	<input type="text" value="ELvI"/>
Value:	<input type="text" value="K"/>
Match Score	<input type="text" value="1"/>
	<input type="button" value="Ok"/> <input type="button" value="Cancel"/>

Merge/Overlay Profiles

If Evergreen finds a match for an incoming record in the database, you need to identify which fields should be replaced, which should be preserved, and which should be added to the record. Click the Merge/Overlay Profiles button to create a profile that contains this information.

You can use these profiles when importing records through the MARC Batch Importer or Acquisitions Load MARC Order Records interface.

You can create a new profile by clicking the New Merge Profile button. Available options for handling the fields include:

1. Preserve specification - fields in the existing record that should be preserved.
2. Replace specification - fields in existing record that should be replaced by those in the incoming record.
3. Add specification - fields from incoming record that should be added to existing record (in addition to any already there.)
4. Remove specification - fields that should be removed from incoming record.
5. Update bib source - If this value is false, just the bibliographic data will be updated when you overlay a new MARC record. If it is true, then Evergreen will also update the record's bib source to the one you select on import; the last edit date to the date the new record is imported, and the last editor to the person who imported the new record.

You can add multiple tags to the specification options, separating each tag with a comma.

Import Item Attributes

If you are importing copies with your records, you will need to map the data in your holdings tag to fields in the copy record. Click the Holdings Import Profile button to map this information.

1. Click the New Definition button to create a new mapping for the holdings tag.
2. Add a Name for the definition.
3. Use the Tag field to identify the MARC tag that contains your holdings information.
4. Add the subfields that contain specific copy information to the appropriate copy field.
5. At a minimum, you should add the subfields that identify the Circulating Library, the Owning Library, the Call Number and the Barcode.



All fields (except for Name and Tag) can contain static values, a MARC subfield code (such as "a"), or an XPATH query.

Holdings Import Profiles

Context Org Unit ▼

[Back](#) [Next](#) [Filter](#)

Alert Message	<input type="text"/>
Barcode	<input type="text" value="p"/>
Call Number	<input type="text" value="j"/>
Circulate	<input and="" text()='\"circul\""/' type="text" value="[@code = \" x\"=""/>
Circulate As MARC Type	<input type="text"/>
Circulating Library	<input b\"][2]"="" type="text" value="[@code = \"/>
Circulation Modifier	<input type="text" value="g"/>
Copy Number	<input type="text" value="t"/>
Definition ID	<input type="text" value="1"/>
Deposit	<input type="text"/>

Table 91.1. Holdings Import Profile Fields

Field	Recommended	Description
Name	Yes	Name you will choose from the MARC Batch Import screen
Tag	Yes	MARC Holdings Tag/Field (e.g. 949). Use the Tag field to identify the MARC tag that contains your holdings information. tag in the record after it is imported. Otherwise, Evergreen will remove this holdings tag.
Barcode	Yes	
Call Number	Yes	
Circulating Library	Yes	
Owning Library	Yes	
Alert Message		
Circulate		
Circulate As MARC Type		
Circulation Modifier		
Copy Number		

Field	Recommended	Description
Deposit		
Deposit Amount		
Holdable		
OPAC Visible		
Overlay Match ID		The copy ID of an existing copy to overlay
Price		
Private Note		
Public Note		
Reference		
Shelving Location		
Stat Cat Data		Of the format CATEGORY 1 VALUE 1 CATEGORY 2 VALUE 2 . If you are overlaying existing copies which already have stat cats attached to them, the overlay process will keep those values unless the incoming copies contain updated values for matching categories.
Status		

Import Records

The Import Records interface incorporates record match sets, quality metrics, more merging options, and improved ways to manage your queue. In this example, we will import a batch of records. One of the records in the queue will contain a matching record in the catalog that is of lower quality than the incoming record. We will import the record according to the guidelines set by our record match set, quality metrics, and merge/overlay choices that we will select.

1. Select a Record Type from the drop down menu.
2. Create a queue to which you can upload your records, or add you records to an existing queue. Queues are linked to match sets and a holdings import profile. You cannot change a holdings import or record match set for a queue.
3. Select a Record Match Set from the drop down menu.
4. Select a Holdings Import Profile if you want to import holdings that are attached to your records.
5. Select a Record Source from the drop down menu.
6. Select a Merge Profile. Merge profiles enable you to specify which tags should be removed or preserved in incoming records.

7. Choose one of the following import options if you want to auto-import records:

- a. Merge on Single Match - Using the Record Match Set, Evergreen will only attempt to perform the merge/overlay action if only one match was found in the catalog.
- b. Merge on Best Match - If more than one match is found in the catalog for a given record, Evergreen will attempt to perform the merge/overlay action with the best match as defined by the match score and quality metric.



Quality ratio affects only the Merge on Single Match and Merge on Best Match options.

8. Enter a Best/Single Match Minimum Quality Ratio. Divide the incoming record quality score by the record quality score of the best match that might exist in the catalog. By default, Evergreen will assign any record a quality score of 1 (one). If you want to ensure that the inbound record is only imported when it has a higher quality than the best match, then you must enter a ratio that is higher than 1. For example, if you want the incoming record to have twice the quality of an existing record, then you should enter a 2 (two) in this field. If you want to bypass all quality restraints, enter a 0 (zero) in this field.

9. Select an Insufficient Quality Fall-Through Profile if desired. This field enables you to indicate that if the inbound record does not meet the configured quality standards, then you may still import the record using an alternate merge profile. This field is typically used for selecting a merge profile that allows the user to import holdings attached to a lower quality record without replacing the existing (target) record with the incoming record. This field is optional.

10 Under Copy Import Actions, choose Auto-overlay In-process Acquisitions Copies if you want to overlay temporary copies that were created by the Acquisitions module. The system will attempt to overlay copies that:

- have associated lineitem details (that is, they were created by the acquisitions process),
- that lineitem detail has the same owning_lib as the incoming copy's owning_lib, and
- the current copy associated with that lineitem detail is In process.

11 Browse to find the appropriate file, and click Upload. The file will be uploaded to a queue. The file can be in either MARC or MARCXML format.

Evergreen MARC File Upload

Record Type

Create a New Upload Queue or Add to an Existing Queue

Record Match Set Limit matches to bucket

Holdings Import Profile

Select a Record Source

Record Import Actions

Merge Profile

Import Non-Matching Records

Merge On Exact Match (901c)

Merge On Single Match

Merge On Best Match

Best/Single Match Minimum Quality Ratio New Record Quality / Quality of Best Match

Insufficient Quality Fall-Through Profile

Copy Import Actions

Auto-overlay In-process Acquisitions Copies

File to Upload:

12The screen will display records that have been uploaded to your queue. Above the table there are three sections:

- Queue Actions lists common actions for this queue. Export Non-Imported Records will export a MARC file of records that failed to import, allowing those records to be edited as needed and imported separately. (Those records can be viewed by clicking the Limit to Non-Imported Records filter.)
- Queue Summary shows a brief summary of the records included in the queue.
- Queue Filters provides options for limiting which records display in the table.

Queue Actions		Queue Summary		Queue Filters	
Import Selected Records		Records in Queue:	4	Limit to Records with Matches	<input type="checkbox"/>
Import All Records		Records Imported:	0	Limit to Non-Imported Records	<input type="checkbox"/>
View Import Items		Record Import Failures	0	Limit to Records with Import Errors	<input type="checkbox"/>
Export Non-Imported Records		Items in Queue	0		
Delete Queue		Items Imported	0		
Copy To Bucket		Item Import Failures	0		

<input type="checkbox"/>	View MARC	Matches	Import Failures	Import Time	Imported As	Title of work	Author of work	Language of work
<input type="checkbox"/>	View MARC					Gregor and the Code of Claw / Suzanne Collins.	Collins, Suzanne.	
<input type="checkbox"/>	View MARC					Gregor and the curse of the warmbloods / Suzanne Collins.	Collins, Suzanne.	
<input type="checkbox"/>	View MARC					Gregor and the marks of secret / Suzanne Collins.	Collins, Suzanne.	
<input type="checkbox"/>	View MARC	Matches (2)				Gregor and the Prophecy of Bane / Suzanne Collins.	Collins, Suzanne.	

13 If Evergreen indicates that matching records exist, then click the Matches link to view the matching records. Check the box adjacent to the existing record that you want to merge with the incoming record.

Import Matches

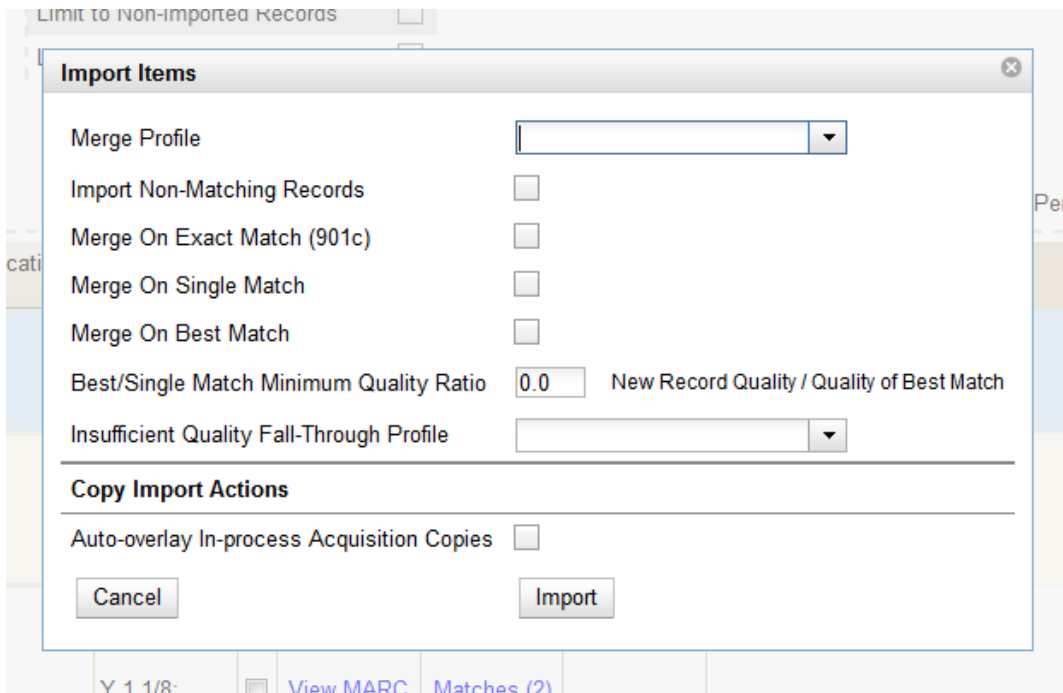
[Back To Import Queue](#)

Merge Target	ID	View MARC	Match Score	Queued Record Quality	Matched Record Quality	Creator	Create Date	Last Edit Date	Source	TCN Source	TCN Value
<input checked="" type="checkbox"/>	1387	View MARC	2	0	1	admin	11/7/11	11/7/11	2		1387
<input type="checkbox"/>	1386	View MARC	2	0	1	admin	11/4/11	11/4/11	2		1386

14 Click Back to Import Queue.

15 Check the boxes of the records that you want to import, and click Import Selected Records, or click Import All Records.

16 A pop up window will offer you the same import choices that were present on the Import Records screen. You can choose one of the import options, or click Import.

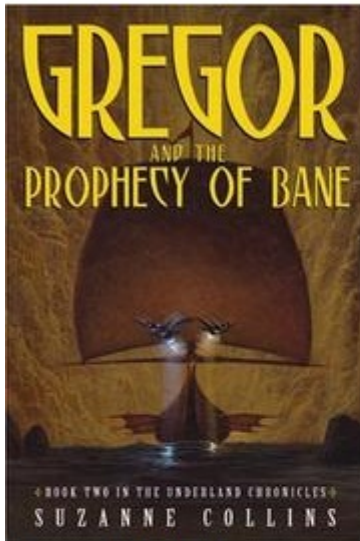


17The screen will refresh. The Queue Summary indicates that the record was imported. The Import Time column records the date that the record was imported. Also, the Imported As column should now display the database ID (also known as the bib record number) for the imported record.

Queue Actions	Queue Summary	Queue Filters
Import Selected Records	Records in Queue: 4	Limit to Records with Matches <input type="checkbox"/>
Import All Records	Records Imported: 1	Limit to Non-Imported Records <input type="checkbox"/>
View Import Items	Record Import Failures 0	Limit to Records with Import Errors <input type="checkbox"/>
Export Non-Imported Records	Items in Queue 0	
Delete Queue	Items Imported 0	
Copy To Bucket	Item Import Failures 0	

<input type="checkbox"/>	View MARC	Matches	Import Failures	Import Time	Imported As	Title of work	Author of work	Language of work
<input type="checkbox"/>	View MARC					Gregor and the Code of Claw / Suzanne Collins.	Collins, Suzanne.	
<input type="checkbox"/>	View MARC					Gregor and the curse of the warmbloods / Suzanne Collins.	Collins, Suzanne.	
<input type="checkbox"/>	View MARC					Gregor and the marks of secret / Suzanne Collins.	Collins, Suzanne.	
<input type="checkbox"/>	View MARC	Matches (2)		11/7/11	152140	Gregor and the Prophecy of Bane /	Collins, Suzanne.	

18 You can confirm that the record was imported by using the value of the Imported As column by selecting the menu Cataloging → Retrieve title by database ID and using the supplied Imported As number. Alternatively, you can search the catalog to confirm that the record was imported.



Gregor and the Prophecy of Bane /Suzanne Collins.

[Collins, Suzanne.](#) (Author). [Collins, Suzanne.](#) (Credited).

Record details

- **ISBN:** 0439650755 (hardcover : alk. paper)
- **Physical Description:** 312 p. ;21 cm.
- **Edition:** 1st ed.
- **Publisher:** Scholastic Press, 2004.

Search for related items by subject

Subject: [Friendship — Fiction.](#)
[Brothers and sisters — Fiction.](#)

Default Values for Item Import

Evergreen now supports additional functionality for importing items through Cataloging → MARC Batch Import/Export. When items are imported via a Holdings Import Profile in Cataloging → MARC Batch Import/Export, Evergreen will create an item-level record for each copy. If an item barcode, call number, copy location, or circulation modifier is not set in the embedded holdings, Evergreen will apply a default value based on the configured Library Settings. A default prefix can be applied to the auto-generated call numbers and item barcodes.

The following Library Settings can be configured to apply these default values to imported items:

- **Vandelay: Generate Default Barcodes** —Auto-generate default item barcodes when no item barcode is present
- **Vandelay: Default Barcode Prefix** —Apply this prefix to any auto-generated item barcodes
- **Vandelay: Generate Default Call Numbers** —Auto-generate default item call numbers when no item call number is present
- **Vandelay: Default Call Number Prefix** —Apply this prefix to any auto-generated item call numbers
- **Vandelay: Default Copy Location** —Default copy location value for imported items

- Vandelay: Default Circulation Modifier —Default circulation modifier value for imported items

Chapter 92. Overlay Existing Catalog Record via Z39.50 Import

This feature enables you to replace a catalog record with a record obtained through a Z39.50 search. No new permissions or administrative settings are needed to use this feature.

To Overlay an Existing Record via Z39.50 Import:

- 1) Click Cataloging → Import Record from Z39.50
- 2) Select at least one Service in addition to the Local Catalog in the Service and Credentials window in the top right panel.
- 3) Enter search terms in the Query window in the top left panel.
- 4) Click Search.

MARC Import via Z39.50

Query
Tip: Click a search field label and then the 'Save as Default' button to have that field focused by default.

Item Type: All Formats

Keyword: sealed letter

Pub Date:

Subject:

Author:

ISSN:

Title: sealed letter

ISBN: 9780151015498

Publisher:

TCN:

LCCN:

Raw Search Clear Form Search Save as Default

Service and Credentials

Service

Local Catalog

Library of Congress

OCLC

+biblios.net

- 5) The results will appear in the lower window.
- 6) Select the record in the local catalog that you wish to overlay.
- 7) Click Mark Local Result as Overlay Target

Results

Showing 9 of 43

Fetch More Results List Actions - Mark Local Result as Overlay Target Show in Catalog MARC View MARC

Author	Edition	ISBN	Publication Date	Publisher	Service
Elgin, Kathy.		9781607542216 (hard)	c2009	Skyview Books	loc
Donoghue, Emma	1st U.S. ed.	9780151015498	c2008	Harcourt	loc
Heins, Marjorie.	1st ed.	0374175454 (alk. paper)	2001	Hill and Wang	biblios
Horowitz, Michael E.		1402404328	c2004	Practising Law Institute	biblios
Donoghue, Emma	1st U.S. ed.	9780151015498	c2008	Harcourt	biblios
Muggleton, Ledowick			1663	[s.n.]	biblios
Donoghue, Emma.		9781554680368	2008	Harper Collins	native-evergreen-catalog

- 8) A confirmation message appears. Click OK.

9) Select the record that you want to replace the existing catalog record.

10) Click Overlay.

Overlay Target	Show in Catalog	MARC View	<input checked="" type="checkbox"/> MARC Editor	Overlay
	Publication Date	Publisher	Service	TCN
17542216 (hard)	c2009	Skyview Books	loc	15861600
1015498	c2008	Harcourt	loc	15239539
15454 (alk. paper)	2001	Hill and Wang	biblios	8725398

11) The record that you selected will open in the MARC Editor. Make any desired changes to the record, and click Overlay Record.

Options

Stack subfields
 Flat-Text Editor
 Fast Item Add

MARC Record

Fixed Fields -- Record type: **BKS**

Type	a	ELvl	Srcce	d	Audn	Ctrl	Lang	eng
BLvl	m	Form	Conf	0	Biog	MRec	Ctry	flu
		Cont	GPub		LitF	1	Indx	0
Desc	a	Ills	Fest	0	DtSt	s	Date1	2008
Date2								

LDR		01685cam a2200385 a 4500
001		15239539
005		20111021160900.0
008		080329s2008 flu 000 1 eng
906		+a 7 +b cbc +c orignew +d 1 +e ecip +f 20 +g y-gencatlg
925	0	+a acquire +b 2 shelf copies +x policy default
955		+a lh03 2008-03-29 +i lh03 2008-03-29 +e lh03 2008-03-29 to CIP
010		+a 2008014677
020		+a 9780151015498
020		+a 015101549X
035		+a (OCoLC)213451577
035		+a (OCoLC)ocn213451577
040		+a DLC +c DLC +d BTCTA +d BAKER +d YDXCP +d OCLCG +d C#P +c
043		+a e-uk---
050	0 0	+a PR6054.0547 +b S43 2008
082	0 0	+a 823/.914 +2 22
100	1	+a Donoghue, Emma, +d 1969-
245	1 4	+a The sealed letter / +c Emma Donoghue.

12) The catalog record that you want to overlay will appear in a new window. Review the MARC record to verify that you are overlaying the correct catalog record.

13) If the correct record appears, click Overlay.

The sealed letter /Emma Donoghue.

[Donoghue, Emma, 1969-](#) (Author). [Donoghue, Emma, 1969-](#) (Credited).

Record details

- ISBN: 9780151015498
- ISBN: 015101549X
- Physical Description: 396 p. ;24 cm.
- Edition: 1st U.S. ed.
- Publisher: Harcourt, c2008.

Search for related items by subject

Subject: [Codrington, Henry John, Sir, 1808-1877](#) — [Fiction](#).
[Codrington, Helen, d. 1876](#) — [Fiction](#).
[Faithfull, Emily, 1836?-1895](#) — [Fiction](#).
[Triangles \(Interpersonal relations\)](#) — [Fiction](#).
[Divorce](#) — [Great Britain](#) — [Fiction](#).

Genre: [Domestic fiction](#).

Chapter 93. Z39.50 Search Enhancements

Abstract

In Evergreen version 2.5, you will be able to search multiple Z39.50 sources simultaneously from record buckets. Using this feature, you can match records from Z39.50 sources to catalog records in your bucket and import the Z39.50 records via Vandelay.

Administration

The following administrative interfaces will enable you to configure Z39.50 search parameters.

Z39.50 Index Field Maps

Click Admin → Server Administration → Z39.50 Index Field Maps to map bib record indexes (metabib fields and record attributes) in your catalog records to Z39.50 search attributes. Metabib fields are typically free form fields found in the body of a catalog record while record attributes typically have only one value and are often found in the leader.

You can map a metabib field or a record attribute to a Z39.50 attribute or a Z39.50 attribute type. To map a specific field in your catalog record to a specific field in a chosen Z39.50 source, you should map to a Z39.50 attribute. For example, if you want the Personal Author in your catalog record to map to the Author field when searching the Library of Congress, then you should do the following:

1. Click New or double-click to edit an existing map.
2. Select the Metabib Field from the drop down menu.
3. Select the appropriate source and field from the Z39.50 Attribute drop down menu.
4. Click Save.

Alternatively, if you want the Personal Author in your catalog record to map to the generic author field of any Z39.50 source, then you should do the following:

1. Click New or double-click to edit an existing map.
2. Select the Metabib Field from the drop down menu.
3. Select the appropriate heading from the Z39.50 Attribute Type drop down menu.
4. Click Save.

Z39.50 servers

Click Admin → Server Admin → Z39.50 Servers to input your Z39.50 server. Click the hyperlinked name of any server to view the Z39.50 search attribute types and settings. These settings describe how the search values (from a metabib field or record attribute) are translated into Z39.50 searches.

Apply Quality Sets to Z30.50 Sources

From this interface, you can rank the quality of incoming search results according to the match set that you have established and their Z39.50 point of origin. By applying a quality score, you tell Evergreen to merge the highest quality records into the catalog.

1. Click Cataloging → MARC Batch Import/Export.
2. Click Record Match Sets. Match Sets specify the MARC attributes, tags, and subfields that you want Evergreen to use to identify matches between catalog and incoming records.
3. Rank the quality of the records from Z39.50 sources by adding quality metrics for the match set. Click MARC Tag and Subfield, and enter the 901z tag and subfield, specify the Z39.50 source, and enter a quality metric. Source quality increases as the numeric quality increases.

Vandelay Match Set Editor

Match set name: Title
 Owning Library: Example Branch 1
 Type: biblio

Your Expression: **100 4a**

Add new:

Working Match Point
 Choose from among the three buttons above to add a new match point.

Your Expression: AND 100 4a | Match score 1

Quality Metrics for this Match Set
 Use buttons above and to the right to add new quality metrics.

✓	#	Quality	Record Attribute	Tag	Subfield	Value
<input type="checkbox"/>	1	1		901	z	biblios
<input type="checkbox"/>	2	2		901	z	loc
<input type="checkbox"/>	3	3		901	z	oclc

Org Unit Settings

Org Unit settings can be set for your local branch, your system, or your consortium. To access these settings, click Admin → Local Administration → Library Settings Editor → Maximum Parallel Z39.50 Batch Searches.

Two new settings control the Z39.50 search enhancements.

1. Maximum Parallel Z39.50 Batch Searches - This setting enables you to set the maximum number of Z39.50 searches that can be in-flight at any given time when performing batch Z39.50 searches. The default value is five (5), which means that Evergreen will perform 5 searches at a given time regardless of the number of sources selected. The searches will be divided between the sources selected. Thus, if you maintain this default and perform a search using two Z39.50 sources, Evergreen will conduct five searches, shared between the two sources.
2. Maximum Z39.50 Batch Search Results - This setting enables you to set the maximum number of search results to retrieve and queue for each record + Z39 source during batch Z39.50 searches. The default value is five (5).

Matching Records in Buckets with Records from Z39.50 Sources

1. Add records to a bucket.
2. Click Bucket Actions → Locate Z39.50 Matches. A pop up window will appear.
3. Select a Z39.50 Server(s).
4. Select a Z39.50 Search Index(es). Note that selecting multiple checkboxes will AND the search indexes.

5. Select a Vandelay queue from the drop down menu to which you will add your results, or create a queue by typing its name in the empty field.
6. Select a Match Set. The Match Set is configured in Vandelay and, in this instance, will only be used to compare the Z39.50 results with the records in your bucket.
7. Click Perform Search.

Bucket Z39.50 Search Dialog

Locate Z39.59 Matches

Z39.50 Servers:

- Massachusetts Institute of Technology (ALEPH)
- Ohio State U
- Penn State
- #biblios.net
- Library of Congress
- repository
- OCLC

Z39.50 Search Indexes:

- Author
- ISBN
- ISSN
- Item Type
- LCCN
- Pubdate
- Subject(LC)
- Subject(generic)
- TCN
- Title(LC)
- Title(generic)

Add Results to Queue: Stub Records 4/16/2013

Match Set: Title

1. Status information will appear, including the number of records in the bucket that were searched, the matches that were found, and the progress of the search. When the search is complete, click Open Queue.

Bucket Z39.50 Search Dialog

Locate Z39.59 Matches

Z39.50 Servers:

- Massachusetts Institute of Technology (ALEPH)
- Ohio State U
- Penn State
- #biblios.net
- Library of Congress
- repository
- OCLC

Z39.50 Search Indexes:

- Author
- ISBN
- ISSN
- Item Type
- LCCN
- Pubdate
- Subject(LC)
- Subject(generic)
- TCN
- Title(LC)
- Title(generic)

Add Results to Queue: Stub Records 4/16/2013

Match Set: Title

Bib Records to Search: 3

Matches Found: 13

Search Progress:

1. The Vandelay Queue will display. Matching records are identified in the Matches column. From this interface, import records according to your normal procedure. It is suggested that to merge

the incoming records with the catalog records, you should choose an option to import the records. Next, select either merge option from the drop down menu, click Merge on Best Match, and then click Import.

Import Items

Merge Profile: Match-Only Merge

Import Non-Matching Records:

Merge On Exact Match (901c):

Merge On Single Match:

Merge On Best Match:

Best/Single Match Minimum Quality Ratio: 0.0 New Record Quality / Quality of Best Match

Insufficient Quality Fall-Through Profile:

Cancel Import

1. The records from the Z39.50 search will merge with the catalog records. NOTE: A new column has been added to this interface to identify the Z39.50 source. When records are imported to the Vandelay queue via a record bucket, Evergreen tags the Z39.50 source and enters the data into the \$901z.

Chapter 94. Monograph Parts

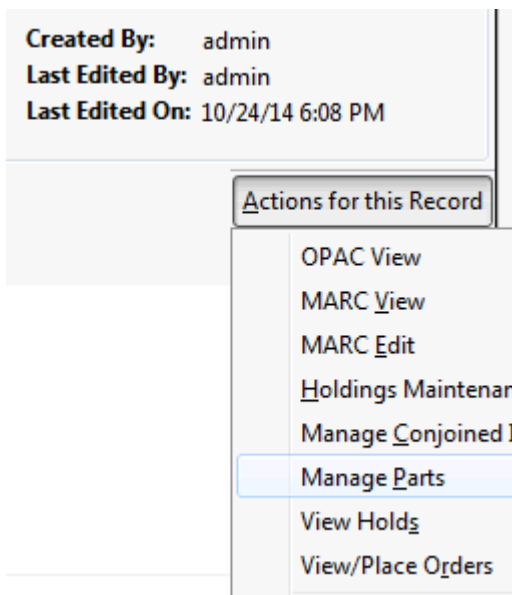
Monograph Parts enables you to differentiate between parts of monographs or other multi-part items. This feature enables catalogers to describe items more precisely by labeling the parts of an item. For example, catalogers might identify the parts of a monograph or the discs of a DVD set. This feature also allows patrons more flexibility when placing holds on multi-part items. A patron could place a hold on a specific disc of a DVD set if they want to access a specific season or episode rather than an entire series.

Four new permissions are used by this functionality: `CREATE_MONOGRAPH_PART`, `UPDATE_MONOGRAPH_PART`, `DELETE_MONOGRAPH_PART` and `MAP_MONOGRAPH_PART`. These permissions should be assigned at the consortial level to those groups or users that will make use of the features described below.

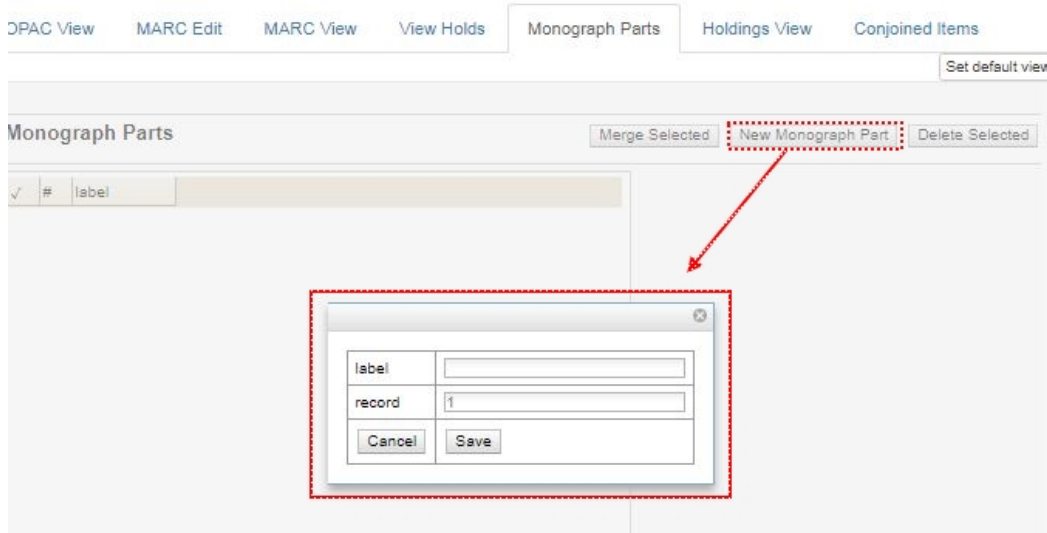
Add a Monograph Part to an Existing Record

To add a monograph part to an existing record in the catalog:

1. Retrieve a record.
2. Click Actions for this Record → Manage Parts

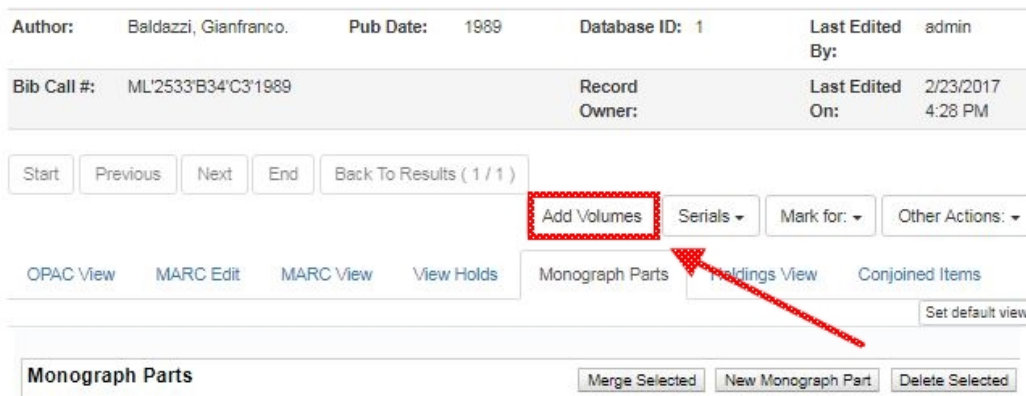


3. Click New Monograph Part
4. Enter the label that you want to appear to the user in the catalog, and click Save. This will create a list of monograph parts from which you can choose when you create a volume and copy.



5. Add a volume and copy. To add a volume and copy to your workstation library, click the Add Volumes link in the Record Summary at the top of the bibliographic record, or click Actions for this Record → Add Volumes.

To add a volume and copy to your workstation library or other libraries, click Actions for this Record → Holdings Maintenance → Add Volumes.



6. The Unified Volume/Copy Creator opens. Enter the number of volumes that you want to add to the catalog and the volume description.

7. Enter the number of copies and barcode(s) of each item.

8. Select the part designation from the drop down menu adjacent to the barcode field.

9. Apply a template to the copies, or edit fields in the Copy Editor.

Author:	Baldazzi, Gianfranco.	Pub Date:	1989	Database ID:	1	Last Edited By:	admin
Bib Call #:	ML'2533'B34'C3'1989	Record Owner:		Last Edited On:	2/23/2017 4:28 PM		

[Edit](#)
[Copy Templates](#)
[Defaults](#)

Batch Apply [Apply](#)

Owning Library	Volumes	Classification	Prefix	Call Number	Suffix	Copies	Barcode	Copy #	Part
CONS	+	Gener		ML'2533'E					
CONS	Add volume								

[Working Copies](#)
[Completed Copies](#)

10 Click Create Volumes/Items.

11 The Holdings Maintenance screen will refresh to demonstrate the addition of the part information. These fields also appear in the OPAC View.

Location	Call Number / Copy Notes	Part	Barcode
English Section	PR1293 (Text)	Volume 1	012345678911 view edit
English Section	PR1293 (Text)	Volume 2	012345678912 view edit

Monograph Part Merging

The monograph part list for a bibliographic record may, over time, diverge from the proscribed format, resulting in multiple labels for what are essentially the same item. For instance, **Vol. 1** may have variants like **V.1**, **Vol 1**, or **Vol. 1** (leading space). Merging parts will allow cataloging staff to collapse the variants into one value.

In the Monograph Parts display:

1. Click the checkbox for all items you wish to merge including the one you wish to prevail when done.
2. Click on the "Merge Selected" button. A pop-up window will list the selected items in a monospaced font, with blanks represented by a middle-dot character for more visibility.
3. Click on the item you wish to prevail.

The undesired part labels will be deleted, and any copies that previously used those labels will now use the prevailing label

Chapter 95. Conjoined Items

Prior to Evergreen version 2.1, items could be attached to only one bibliographic record. The Conjoined Items feature in Evergreen 2.1 enables catalogers to link items to multiple bibliographic records. This feature will enable more precise cataloging. For example, catalogers will be able to indicate items that are printed back to back, are bilingual, are part of a bound volume, are part of a set, or are available as an e-reader pre-load. This feature will also help the user retrieve more relevant search results. For example, a librarian catalogs a multi-volume festschrift. She can create a bibliographic record for the festschrift and a record for each volume. She can link the items on each volume to the festschrift record so that a patron could search for a volume or the festschrift and retrieve information about both works.

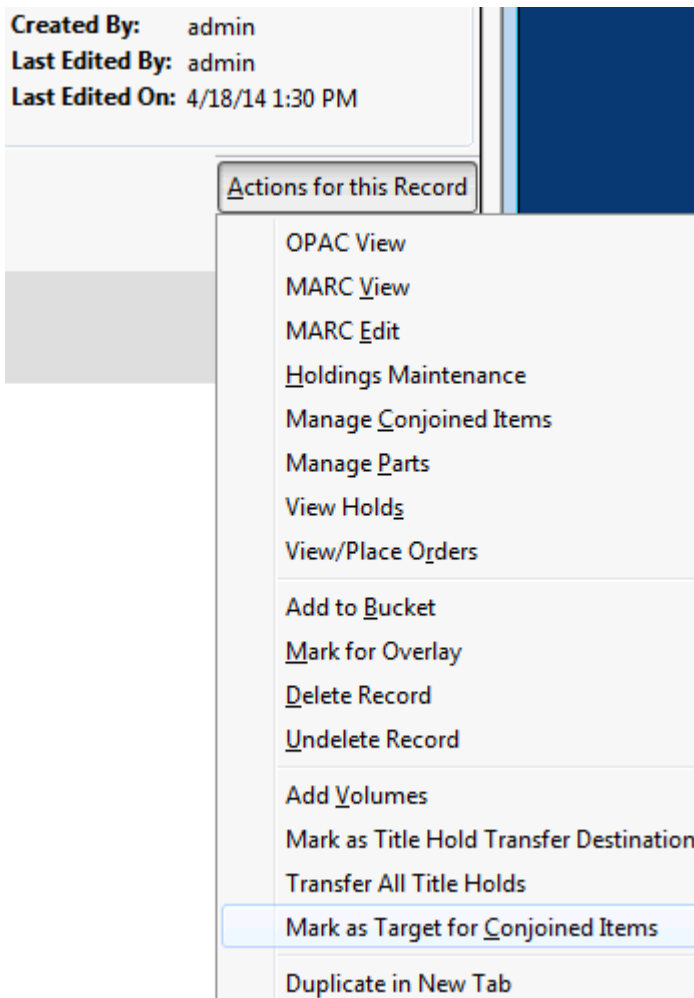
In the example below, a librarian has created a bibliographic record for two bestselling items. These books are available as physical copies in the library, and they are available as e-reader downloads. The librarian will link the copy of the Kindle to the bibliographic records that are available on the e-reader.

Using the Conjoined Items Feature

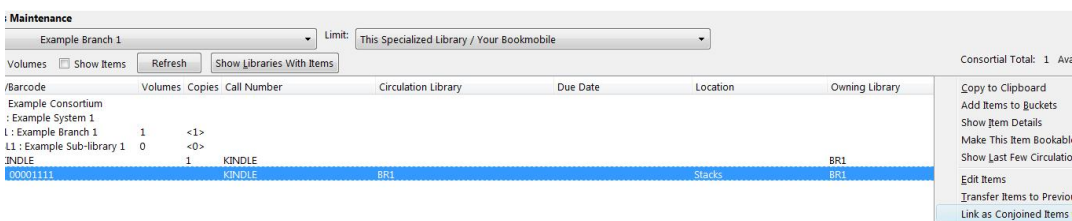
The Conjoined Items feature was designed so that you can link items between bibliographic records when you have the item in hand, or when the item is not physically present. Both processes are described here. The steps are fewer if you have the item in hand, but both processes accomplish the same task. This document also demonstrates the process to edit or delete links between items and bibliographic records. Finally, the permission a cataloger needs to use this feature is listed.

Scenario 1: I want to link an item to another bibliographic record, but I do not have the item in hand

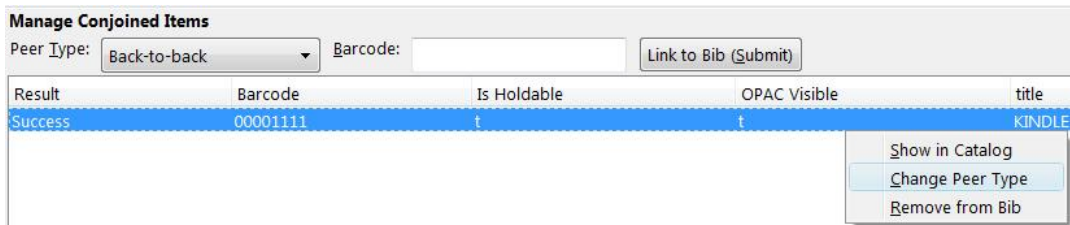
1. Retrieve the bibliographic record to which you would like to link an item.
2. Click Actions for this Record → Mark as Target for Conjoined Items.



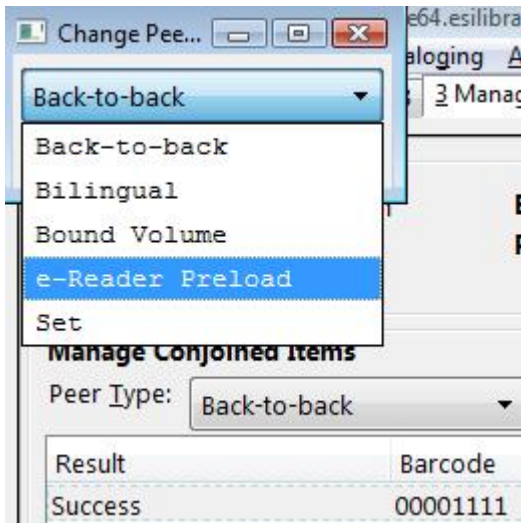
3. A confirmation message will appear. Click OK.
4. In a new tab, retrieve the bibliographic record with the item that you want to link to the other record.
5. Click Actions for this Record → Holdings Maintenance.
6. Select the copy that you want to link to the other bibliographic record. Right-click, or click Actions for Selected Rows → Link as Conjoined Items to Previously Marked Bib Record.



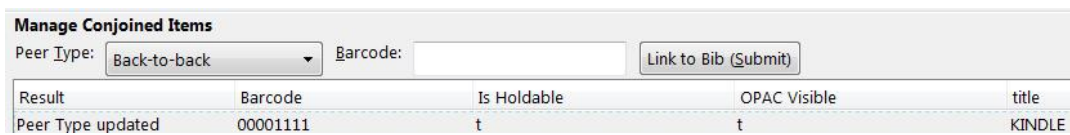
7. The Manage Conjoined Items interface opens in a new tab. This interface enables you to confirm the success of the link, and to change the peer type if desired. The Result column indicates that you created a successful link between the item and the bib record.



The default peer type, Back-to-back, was set as the peer type for our item. To change a peer type after the link has been created, right-click or click Actions for Selected Items → Change Peer Type. A drop down menu will appear. Select the desired peer type, and click OK.



8. The Result column will indicate that the Peer Type [has been] Updated.



9. To confirm the link between the item and the desired bib record, reload the tab containing the bib record to which you linked the item. You should now see the copy linked in the copies table.

Location

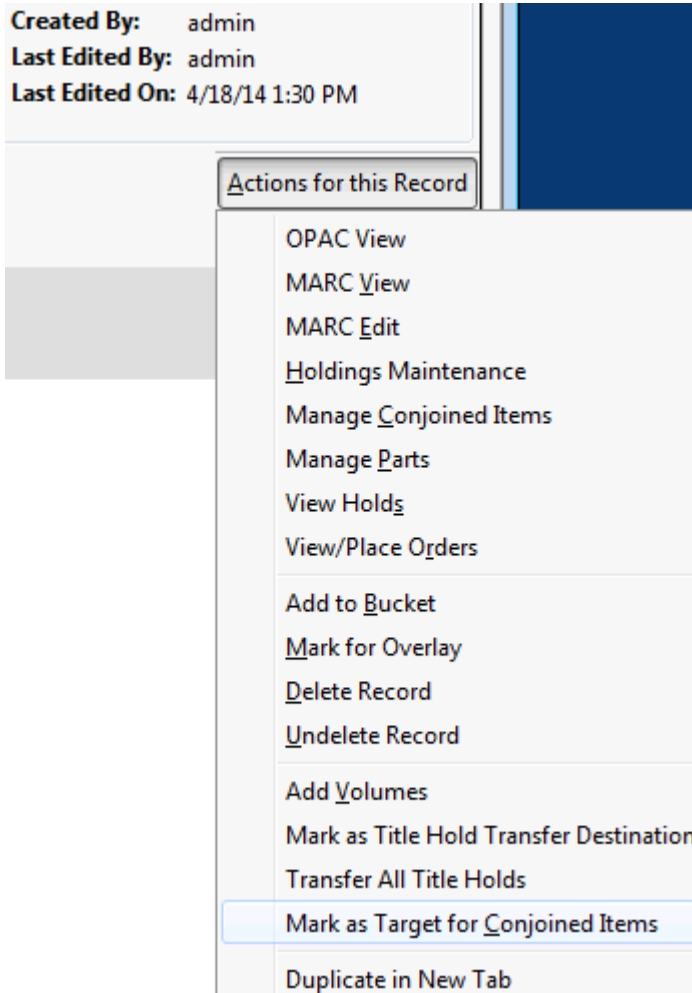
Meeter Center (foreign item)

- **Bound Volume:** [Ioannis Calvini Praelectiones in librum](#)

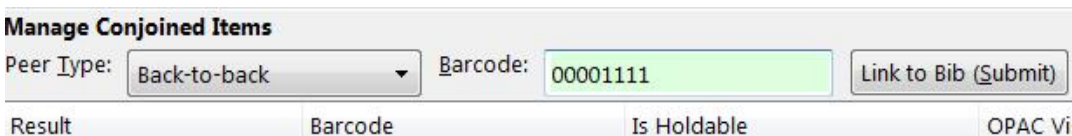
[Meeter Center](#)

Scenario 2: I want to link an item to another bibliographic record, and I do have the item in hand

1. Retrieve the bibliographic record to which you would like to add the item.
2. Click Actions for this Record → Manage Conjoined Items.



3. A note in the bottom left corner of the screen will confirm that the record was targeted for linkage with conjoined items, and the Manage Conjoined Items screen will appear.
4. Select the peer type from the drop down menu, and scan in the barcode of the item that you want to link to this record.
5. Click Link to Bib (Submit).



6. The linked item will appear in the screen. The Result column indicates Success.

7. To confirm the linkage, click Actions for this Record → OPAC View.
8. When the bibliographic record appears, click Reload. Linked Titles will show the linked title and item.

Scenario 3: I want to edit or break the link between a copy and a bibliographic record

1. Retrieve the bibliographic record that has a copy linked to it.
2. Click Actions for this Record → Manage Conjoined Items.
3. Select the copy that you want to edit, and right-click or click Actions for Selected Items.
4. Make any changes, and click OK.

UPDATE_COPY - Link items to bibliographic records

Chapter 96. Cataloging Electronic Resources — Finding Them in Catalog Searches

There are two ways to make electronic resources visible in the catalog without adding copies to the record:

1. Adding a Located URI to the record
2. Attaching the record to a bib source that is transcendent

The Located URI approach is useful for Evergreen sites where libraries have access to different electronic resources. The transcendent bib source approach is useful if all libraries have access to the same electronic resources.

Another difference between the two approaches is that electronic resources with Located URI's never appear in results where the search is limited to a specific copy location(s). In contrast, transcendent electronic resources will appear in results limited to any copy location.

Adding a Located URI to the Record

A Located URI allows you to add the short name for the owning library to the 856 field to indicate which organizational units should be able to find the resource. The owning organizational unit can be a branch, system, or consortium.

A global flag called *When enabled, Located URIs will provide visibility behavior identical to copies* will determine where these resources will appear in search results. This flag is available through Admin → Server Administration → Global Flags.

If the *When enabled, Located URIs will provide visibility behavior identical to copies* flag is set to False (default behavior):

- When the user's search scope is set at the owning organizational unit or to a child of the owning organizational unit, the record will appear in search results.
- When a logged-in user's preferred search library is set to the owning organizational unit or to a child of that owning organizational unit, the record will appear regardless of search scope.

If the *When enabled, Located URIs will provide visibility behavior identical to copies* flag is set to True:

- When the user's search scope is set at the owning organizational unit, at a child of the owning organizational unit, or at a parent of the owning organizational unit, the record will appear in search results.
- When a logged-in user's preferred search library is set to the owning organizational unit, to a child of the owning organizational unit, or to a parent (with the exception of the consortium) of the owning organizational unit, the record will appear regardless of search scope.

To add a located URI to the record:

1. Open the record in MARC Edit
2. Add a subfield 9 to the 856 field of the record and enter the short name of the organizational unit for the value. Make sure there is a 4 entered as the first indicator and a 0 entered as the second indicator. For example:

856 40 \$u <http://lwn.net> \$y Linux Weekly News \$9 BR1

would make this item visible to people searching in a library scope of BR1 or to logged-in users who have set BR1 as their preferred search library.



If multiple organizational units own the resource, you can enter more than one subfield 9 to the 856 field or you can enter multiple 856 fields with a subfield 9 to the record

3. Save the record

Located URI Example 1

The When enabled, Located URIs will provide visibility behavior identical to copies flag is set to False (default behavior)

The Record has two 856 fields: one with SYS1 in subfield 9 and the other with BR4 in subfield 9

- Any user searching SYS1 or any of its children (BR1, BR2, SL1) will find the record. These users will only see the URL belonging to SYS1.
- Any user searching BR4 will find the record. These users will only see the URL belonging to BR4.
- A user searching SYS2 will NOT find the record because SYS2 is a parent of an owning org unit, not a child. The same thing happens if the user is searching the consortium. In this case, the system assumes the user is unlikely to have access to this resource and therefore does not retrieve it.
- A logged-in user with a preferred search library of BR4 will find the record at any search scope. This user will see the URL belonging to BR4. Because this user previously identified a preference for using this library, the system assumes the user is likely to have access to this resource.
- A logged-in user with a preferred search library of BR4 who is searching SYS1 or any of its children will also retrieve the record. In this case, the user will see both URLs, the one belonging to SYS1 because the search library matches or is a child of the owning organizational unit and the one belonging to BR4 because it matches or is a child of the preferred search library. The URL belonging to the search library (if it is an exact match, not a child) will sort to the top.

Located URI Example 2

The When enabled, Located URIs will provide visibility behavior identical to copies flag is set to True

The Record has two 856 fields: one with SYS1 in subfield 9 and the other with BR4 in subfield 9

- Any user searching SYS1 or any of its children (BR1, BR2, SL1) will find the record. These users will only see the URL belonging to SYS1.
- Any user searching BR4 will find the record. These users will only see the URL belonging to BR4.
- Any user searching the consortium will find the record. These users will see both URLs in the record. In this case, the system sees this user as a potential user of SYS2 or BR4 and therefore offers them the option of accessing the resource through either URL.
- A user searching SYS2 will find the record because SYS2 is a parent of an owning org unit. The user will see the URL belonging to BR4. Once again, the system sees this user as a potential user of BR4 and therefore offers them the option of accessing this resource.
- A user searching BR3 will NOT find the record because BR3 is neither a child nor a parent of an owning organizational unit.
- A logged-in user with a preferred search library of BR4 who is searching BR3 will find the record. This user will see the URL belonging to BR4. Because this user previously identified a preference for using this library, the system assumes the user is likely to have access to this resource.
- A logged-in user with a preferred search library of BR4 who is searching SYS1 or any of its children will also retrieve the record. In this case, the user will see both URLs, the one belonging to SYS1 because the search library matches or is a child of the owning organizational unit and the one belonging to BR4 because it matches or is a child of the preferred search library. The URL belonging to the search library (if it is an exact match, not a child) will sort to the top.

Using Transcendent Bib Sources for Electronic Resources

Connecting a bib record to a transcendent bib source will make the record visible in search results regardless of the user's search scope.

To start, you need to create a transcendent bib source by adding it to `config.bib_source` in the Evergreen database and setting the transcendent field to true. For example:

```
# INSERT INTO config.bib_source(quality, source, transcendent, can_have_copies)
VALUES (50, 'ebooks', TRUE, FALSE);
```



If you want to allow libraries to add copies to these records, set the `can_have_copies` field to TRUE. If you want to prevent libraries from adding copies to these records, set the `can_have_copies` field to FALSE.

When adding or uploading bib records for electronic resources, set the bibliographic source for the record to the newly-created transcendent bibliographic source. Using the staff client, the bibliographic source can be selected in the MARC Batch Import interface when importing new, non-matching records or in the MARC Edit interface when editing existing records.

Chapter 97. TPAC Copy Edit Links

The bibliographic record detail page displays library holdings, including the call number, shelving location, and copy barcode. Within the staff client, the holdings list now displays a new column next to the copy barcode(s). This new column contains two links, view and edit.

Piano concerto, op. 38
Baker, Michael C. (Michael Conway), 1941: (Author)

Music Score

Available copies: 27 copies at Example Consortium. Current holds: 2 current holds with 31 total copies.

Location	Call Number / Copy Notes	Barcode	Shelving Location	Age Hold Protection	Create Date	Holdable?	Status	Due Date
Example Branch 1	780 B8	CONC40000543 view edit	Stacks	None	05/15/2014	Copy hold / Volume hold	Available	-
Example Branch 1	780 B8	CONC41000543 view edit	Stacks	None	05/15/2014	Copy hold	Available	-
Example Branch 1	ML 2533 B34 C8	CONC4000043 view edit	Stacks	None	05/15/2014	Copy hold / Volume hold	Checked out	05/29/2014

Place Hold
Add to my list
Print / Email

Clicking on the view link opens the Item Status screen for that specific copy.

Clicking on the edit link opens the Volume and Copy Creator screen for that specific copy.

The edit link will only be exposed next to copies when the user has the UPDATE_COPY permission at the copy owning or circulating library.

For libraries where the Library Setting: Unified Volume/Item Creator/Editor value is set to True, the unified Volume and Copy Creator screen will open.

For libraries where the Library Setting: Unified Volume/Item Creator/Editor value is set to False, the standard Volume and Copy Creator screen will open.

Chapter 98. MARC Batch Edit

This function is used to batch edit MARC records either adding a field, removing a field or changing the contents of a field.

Record Source This includes options to batch edit identifying MARC records in a record bucket, CSV file or by record id.

Go! (button) This button runs the action defined by the rule template(s).

Action (Rule Type)

Replace Replaces the value in a MARC field for a batch of records.

Delete Removes a MARC field and its contents from the batch of records.

Add Use this to add a field and its contents to a batch of records.

Other Template Fields

MARC Tag This is used to identify the field for adding, replacing, or deleting.

Subfield (optional) Indicates which subfield is being edited.

MARC Data Use this to indicate the data to add or used in replacing the existing data.

Advanced Matching Restrictions (Optional)

Subfield Regular Expression:: Using PERL syntax for a regular expression to identify the data to be removed or replaced.

Running a Template to Add, Delete, or Replace MARC data

1. Click Cataloging→MARC Batch Edit
2. Select Record source
3. Select the appropriate bucket, load the CSV file or enter record id depending on Record source selected
4. Select the Action Rule
5. Enter the MARC Tag with no indicators (eg. 245)
6. Enter the subfields with no spaces. Subfields are optional. Multiple subfield can be entered such as auz.
7. Enter the MARC Data which is the value in the fields

8. Enter optional Advanced Matching Restrictions

a. Subfield

b. Regular Expression (using PERL syntax)

9. Click Go!

10 Results page will display indicating the number of records successfully edited

Chapter 99. Managing Authorities

This section describes how you can create, import, view, modify, merge, and delete authority records in Evergreen.

Creating Authorities

Currently in Evergreen to create a new authority record, as opposed to importing an authority record, you need to have a bib record open in the bib MARC editor.

- For example, if you want to create a new author authority you need to have a bib record that has a bib 1xx or 7xx tag with the main entry filled out.
- Then you need to right click on that 1xx or 7xx tag. In the context menu that shows up, select Create New Authority from this field, then select either Create Immediately or Create and Edit....
- If you choose Create and Edit..., after the authority MARC editor opens you need to click on the Save button to finally add the new authority record to your system.

Importing Authorities

1. Click Cataloging → MARC Batch Import/Export.
2. You may create a queue to better track this import project. If you do not create a new queue, it will automatically put your records into a default queue named -.
3. Don't set a value for Holdings Import Profile, because this doesn't apply to authority records.
4. Select a file of authority data and put it in the File to Upload field.
5. Make sure all the settings are correct, then press Upload.

The screen displays "Uploading... Processing..." to show that the records are being transferred to the server, then displays a progress bar to show the actual import progress. When the staff client displays the progress bar, you can disconnect your staff client safely. Very large batches of records might time out at this stage.

6. Evergreen will automatically assign a thesaurus based on the Subj fixed field, which is character 11 in the 008 field.
7. Evergreen will also try to determine who edited the record (based on the MARC 905u field or the user performing the import) and set the edit date, which you can view when you examine the record in the future.
8. Once the import is finished, the staff client displays the results of the import process. You can manually display the import progress by selecting the Inspect Queue tab of the MARC Batch Import/Export interface and selecting the queue name. By default, the staff client does not display records that were imported successfully; it only shows records that conflicted with

existing entries in the database. The screen shows the overall status of the import process in the top right-hand corner, with the Total and Imported number of records for the queue.



If you are importing authorities from an external vendor and want to track this, you may wish to set a unique Record Source. This source will be visible in the MARC Editor and in the 901\$s field of the imported authority records.

Setting up Authority Record Match Sets

1. Click Cataloging → MARC Batch Import/Export.
2. Click Record Match Sets.
3. If you have sufficient privileges, you will be able to click on the New Match Set. If you are unable to do so, check that you have the ADMIN_IMPORT_MATCH_SET permission.
4. Give your new set a descriptive name, an owning library, and a match set type of authority.
5. Click on the blue hyperlinked name of the match set you just created to add criteria.
6. You can match against MARC tag/subfield entries or against a record's normalized heading.



Evergreen's database stores normalized authority headings in a format that includes the thesaurus. This way, record match sets will not match terms from other thesauri, even if the term is very similar.



Evergreen's internal identifier is in the 901c field. If you have previously exported authority record — perhaps for an external vendor to do authority cleanup work — and you want to import them back into your catalog, you may wish to include the 901c field in your match set.

Manage Authorities Interface

In Evergreen to view, edit, merge, and delete authority records you would use the Manage Authorities interface through the Cataloging menu.

Searching for authorities

To search for authorities in your system, first select the Cataloging menu and then select Manage Authorities. Then proceed to fill out the search form.

1. Type in your Search Term
2. Select an Authority type, types currently include: Author, Subject, Title, Topic

3. Click on the Submit button

The authority search results will include the following elements from left to right:

- Actions menu, which can be used to select actions that affect the corresponding authority record. Actions include: Edit, Mark for Merge, Delete
- Count of how many bibs are linked to the corresponding authority
- Main entry of the authority, i.e the authority tag 1xx value
- Control set value, with LoC being the default, but others can be added
- Authority Subject heading system/thesaurus, for example a value of "a" means authority originated from the Library of Congress (<http://www.loc.gov/marc/authority/ad008.html>)

Library of Congress list of thesaurus values:

- " = Alternate no attempt to code
- a = Library of Congress Subject Headings
- b = LC subject headings for children's literature
- c = Medical Subject Headings
- d = National Agricultural Library subject authority file
- k = Canadian Subject Headings
- n = Not applicable
- r = Art and Architecture Thesaurus
- s = Sears List of Subject Headings
- v = Repertoire de vedettes-matiere
- z = Other
- | = No attempt to code

Editing authority records

Editing an authority record (or merging two authority records) can cause its linked bibliographic records to also update. For example, if you correct a spelling error in the 150 field of a subject authority record, the relevant 650 field in linked bibliographic records will also be updated to reflect the correct spelling.



When a bib record is automatically updated as a result of the modification of a linked authority record, the bib record's "Last Edit Date/ Time" and "Last Editing User" fields

will be updated to match the time of the update and the editory of the authority record. If you'd prefer that these fields not be automatically updated, you can set the `ingest.disable_authority_auto_update_bib_meta` setting to true in the Library Settings Editor.

Chapter 100. Link Checker

The Link Checker enables you to verify the validity of URLs stored in MARC records. The ability to verify URLs would benefit locations with large electronic resource collections.

Search for URLs

Search for MARC records that contain URLs that you want to verify.

1. Click Cataloging → Link Checker.
2. Click New Link Checker Session.
3. Create a session name. Note that each session must have a unique name.
4. Select a search scope from the drop down menu. Records that would be retrieved by searching Example Branch 1 (BR1) in an OPAC search would also be retrieved here. For example, a record that describes an electronic resource with a URL in the 856 \$u and an org unit code, such as BR1, in the 856 \$9, would be retrieved by a search of relevant keywords. Also, records that contain a URL without the \$9 subfield, but also have physical copies at BR1, would be retrieved. Note that you can skip this step if you enter the org unit code of the location that you want to search in the Search field.
5. Enter search terms to retrieve records with URLs that you want to verify. You can also add a location filter, such as BR1.
6. You may further limit your search by selecting a saved search. Saved searches are filters made up of specific criteria, such as shelving location or audience. Adding a saved search to your keyword search will narrow your search for records with URLs. This step is optional.
7. Enter tags and subfields that contain URLs in the appropriate boxes. Click Add after you enter the data in the fields. You can add multiple tags and subfields by repeating this process. Evergreen will search for records that match your search terms, and then, from the set that it retrieves, it will extract any URLs from all of the tag/subfield locations you have specified for the session.
8. To view and manually verify the URLs that Evergreen retrieves, leave the Process Immediately button unchecked. If you want Evergreen to automatically verify the URLs that it retrieves, then check the box to Process Immediately.
9. Click Begin to process your search.

Link Checker - Create Session

Session name:	<input type="text" value="Jan2013"/>	
Search scope:	<input type="text" value="Example Branch 1"/>	<i>This will only be used if your search doesn't contain an explicit filter such as site(BR1)</i>
Search:	<input type="text" value="earth sciences"/>	
Saved searches:	<ul style="list-style-type: none">Children's MaterialsGeneral/Adult MaterialsYoung Adult Materials	<i>Optionally select one or more to combine with 'Search' field above.</i>
Tags and subfields to search for URLs:	<input type="text" value="859 \$u"/> <input type="text" value="X"/> <input type="text" value="u"/> <input type="button" value="Add"/>	
Process immediately?	<input type="checkbox"/>	
<input type="button" value="Begin"/>		

View Your Results

If you do not click Process Immediately, then you must select the links that you want to verify, and click Verify Selected URLs. If you click Process Immediately, then you skip this step, and Evergreen jumps directly to the results of the verification attempts as seen in the next step.

Link Checker - Select URLs - Session 'Jan2013'

Print URLs | Download CSV | Verify Selected URLs

Filter	#	Title Proper (normalized)	Author (normalized)	URL ID	Tag	Subfield	Ordinal Position	URL	Scheme	Host	Domain	TLD	Path	Page	Query	Fragment	
<input checked="" type="checkbox"/>	1	geodiversitas		19	859	u	1	http://www.mnhn.fr/publication/geodiv/geodiv.html	http	www.mnhn.fr	mnhn.fr	fr	/publication/geodiv/geodiv.html	geodiv.html			
<input checked="" type="checkbox"/>	2	geodiversitas		20	859	u	2	http://bibpurl.oclc.org/web/10400	http	bibpurl.oclc.org	oclc.org	org	/web/10400	10400			
<input checked="" type="checkbox"/>	3	current research in earth sciences		15	859	u	1	http://www.kgs.ukans.edu/Current/	http	www.kgs.ukans.edu	kgs.ukans.edu	edu	/Current/				
<input checked="" type="checkbox"/>	4	current research in earth sciences		16	859	u	2	http://ej.lib.umn.edu/?url=http://www.kgs.ukans.edu/Current/	http	ej.lib.umn.edu	lib.umn.edu	edu	/		url=http://www.kgs.ukans.edu/Current/		
<input checked="" type="checkbox"/>	5	current research in earth sciences		17	859	u	3	http://books.google.com/books?id=1swOQAAM	http	books.google.com	google.com	com	/books	books	id=1swOQAAM		
<input checked="" type="checkbox"/>	6	current research in earth sciences		18	859	u	4	http://books.google.com/books?id=z8wOQAAM	http	books.google.com	google.com	com	/books	books	id=z8wOQAAM		

Evergreen displays the results of the verification attempts, including the tags that you searched, the URLs that Evergreen retrieved, the Bib Record ID, the request and result time, and the result code and text.

Link Checker - Review Verification Attempt - Session 'Jan2013'

Filter

✓	#	Redirected From	Tag	Subfield	Ordinal Position	URL	Title Proper (normalized)	Record ID	Request Time	Result Time	Result Code	Result Text
<input type="checkbox"/>	1		859	u	1	http://www.mnhn.fr/publication/geodiv/geodiv.html	geodiversitas	104 [Edit]	2013-01-08	2013-01-08	200	OK
<input type="checkbox"/>	2		859	u	2	http://bibpurl.oclc.org/web/10400	geodiversitas	104 [Edit]	2013-01-08	2013-01-08	302	Moved Temporarily
<input type="checkbox"/>	3		859	u	1	http://www.kgs.ukans.edu/Current/	current research in earth sciences	103 [Edit]	2013-01-08	2013-01-08	500	Can't connect to www.kgs.ukans.edu:80 (Bad hostname 'www.kgs.ukans.edu')
<input type="checkbox"/>	4		859	u	2	http://ej.lib.umn.edu/?url=http://www.kgs.ukans.edu/Current/	current research in earth sciences	103 [Edit]	2013-01-08	2013-01-08	301	Moved Permanently
<input type="checkbox"/>	5		859	u	3	http://books.google.com/books?id=1swOQAAM	current research in earth sciences	103 [Edit]	2013-01-08	2013-01-08	200	OK
<input type="checkbox"/>	6		859	u	4	http://books.google.com/books?id=z8wOQAAM	current research in earth sciences	103 [Edit]	2013-01-08	2013-01-08	200	OK
<input type="checkbox"/>	7	16				http://www.lib.umn.edu/about/contact?url=http://www.kgs.ukans.edu/Current/			2013-01-08	2013-01-08	302	Found

Manage Your Sessions

Edit Columns

You can use the Column Picker to add and remove columns on any of the Link Checker interfaces. To access the Column Picker, right click on any of the column headings. The columns are saved to your user account.

Clone Sessions

You can clone sessions that you run frequently or that have frequently-used parameters that need only minor adjustments to create new searches. To clone a session:

1. Click Cataloging → Link Checker.
2. In the Session ID column, click Clone. A copy of the parameters of that search will appear.

View Verification Attempts

To view the results of a verification attempt after you have closed the session, click Cataloging → Link Checker. Your link checker sessions appear in a list. To view the results of a session, click the Open link in the Session ID column.

Click Filter to refine the results on this page. To add a filter:

1. Select a column from the first drop down menu.
2. Select an operator from the second drop down menu.
3. A third field will appear. Enter the appropriate text.
4. Click Apply to apply the filter to your current results. Click Save Filters to save the filter to your user account for later use.

Part X. Serials

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Chapter 101. Serials

This documentation is intended for users who will be ordering subscriptions, distributing issues, and receiving issues in Evergreen.

Serial Control View vs. Alternate Serial Control View

Serial Control View and Alternate Serial Control View offer you two views of Serials. Both views enable you to create subscriptions, add distributions, define captions, predict future issues, and receive items. Serial Control View was designed for users who work with a smaller number of issues and was designed to accommodate workflows in academic and special libraries. Alternate Serial Control View was designed for users who receive a larger number of issues and was designed for use in public libraries.

In version 2.4, the two interfaces have taken a big step toward unification. Now in the Serial Control View, within the Subscription editor, you will find an embedded version of the Alternate Serial Control View. This new unified interface tries to provide the best features of both views, giving full access to the Alternate view functions from within the tabbed Serial Control View. One exception is that you cannot predict new issues from within the embedded Alternate view; instead you should use the standard Serial Control View method of predicting issues, [explained here](#). Also, some improvements were made to the embedded Alternate view to prevent losing features that were available in the old Serial Control View editors. These changes include: new "Edit Notes" buttons on the subscriptions and distributions editors; labeled dropdown for distribution summary options ("Add to record entry", "Use record entry only", etc.); new legacy record entry linkage (allows one to tie a distribution's information to a particular serial record entry (i.e. a MFHD record)).

Outside of the Subscription Editor, the two views maintain their previous looks and usage. You are encouraged to use the new combination view and provide feedback to the [Evergreen general discussion list](#).

The views are interoperable, but because they were designed for different purposes, some differences emerge. For example, Serial Control View enables you to create and edit serials in a single tabbed interface while Alternate Serial Control View leads you through a series of steps on multiple screens. In addition, receiving functions vary between views. Both receiving interfaces enable you to batch receive issues. However, the Serials Batch Receive interface, which is associated with Alternate Serial Control View, allows for more customization of each receiving unit while the Items tab in Serial Control View allows for greater flexibility in creating multi-issue units, such as in binding serials.



The new combination view tries to provide the best of both views in one place. Try it out and send your feedback to the [Evergreen general discussion list](#).

Table 101.1. Serials Control View and Alternate Serials Control View Comparison

Function	Serials Control View	Alternate Serials Control View	Combination View
Menu Style	Menu driven	Wizard oriented	Both
Setting Up subscription	No calendar drop downs	Includes calendar drop down	Includes calendar drop down
Creating streams	No setup required	Requires streams	No setup required
Creating captions and patterns	Wizard available	Wizard available	Wizard available
Adding Starting Issue	Includes holdings code wizard	Includes holdings code wizard	Includes holdings code wizard
Generate Predictions	Make predictions	Generate predictions	Make predictions
Add items for special issue	No functionality	New items on issuances tab	New items on issuances tab
Receiving issues	Multiple modes in Items tab	Batch Receive	Both

MFHD Records

MARC Format for Holdings Display (MFHD) display in the OPAC in addition to holding statements generated by Evergreen from subscriptions created in the Serials Control View or the Alternate Serials Control View. The MFHDs are editable as MARC but the holdings statements generated from the control view are system generated. Multiple MFHDs can be created and are tied to Organizational Units.

Chapter 102. Copy Template for Serials

A copy template enables you to specify item attributes that should be applied by default to copies of serials. You can create one copy template and apply it to multiple serials. You can also create multiple copy templates. Templates will be used in the Alternate Serial Control View or the Serial Control View.

Create a copy template

To create a copy template, click Admin → Local Administration → Copy Template Editor.

1. Enter a Name for the template.
2. Select an owning library from the Owing Lib drop down menu. This organization owns the copy template. A staff member with permissions at that organization can modify the copy template. The menu is populated from the organizations that you created in Admin → Server Administration → Organizational Units.
3. Check Circulate? if you want the item to circulate.
4. Check Holdable? if patrons can place holds on the item.
5. Check OPAC Visible? if you want patrons to be able to see the item in the OPAC after you receive it.
6. Select a Loan Duration rule from the drop down menu. This field is required.
7. Select a Fine Level for the item from the drop down menu. This field is required.
8. Select a copy location from the Location drop down menu. The menu is populated from the copy locations that you created in Admin → Local Administration → Copy Locations.
9. Select a Circ Modifier from the drop down menu. The menu is populated from the modifiers that you created in Admin → Server Administration → Circulation Modifiers.
10. Select a Floating Group if the item is part of a floating collection. For more information, see the chapter on [Floating Groups](#).
11. Check Deposit? if patrons must place a deposit on the copy before they can use it.
12. Check Reference? if the item is a reference item.
13. Check Mint Condition? if the item is in mint condition.
14. Enter age protection rules in the Age Protect field. Age protection allows you to control the extent to which an item can circulate after it has been received. For example, you may want to protect new copies of a serial so that only patrons who check out the item at your branch can use it.
15. Enter a message in the Alert Message field. This message will appear every time the item is checked out to a patron.

16 Enter a code from the MARC fixed fields into the Circ as Type field if you want to control the circulation based on the item type.

17 Enter a Deposit Amount if patrons must place a deposit on the copy before they can use it.

18 Enter the Price of the item.

19 Select a copy status from the Status drop down menu. The copy statuses can be managed in Admin → Server Administration → Copy Statuses.

20 Click Save.

Edit a copy template

You can make changes to an existing copy template. Changes that you make to a copy template will apply to any items that you receive after you edited the template.

1. Double-click the row you want to edit. The copy template will appear, and you can edit the fields.
2. After making changes, click Save.



From the copy template interface, you can delete copy templates that have never been used. First check the box for the template you wish to delete, then click Delete Selected.

Chapter 103. Serials Control View

As of Evergreen 2.4, the Serial Control View incorporates the Alternate Serial Control interface in the Subscription editor. Serial Control View enables you to manage serials in a single tabbed interface. This view also enables you to bind units. Serial Control View consists of five tabs: Items, Units, Distributions, Subscriptions, and Claims. Units and Claims are not functional in 2.4.

Create a Subscription

A subscription is designed to hold all information related to a single serial title. Therefore, each library is likely to have only one subscription per serial title.

The screenshot displays the Evergreen Serial Control View interface. At the top, there's a menu bar with options like 'File', 'Edit', 'Search', 'Circulation', 'Cataloging', 'Acquisitions', and 'Booking'. Below the menu bar, there are several icons for 'Check Out', 'Check In', 'Search Catalog', 'Item Status', 'Patron Search', and 'Patron Registration'. The main content area is divided into several sections. On the left, there's a 'Record Summary' section for 'Africana library journal' with fields for 'Edition', 'TCN', 'Pub Date', 'Database ID', 'Record Owner', 'Created By', 'Last Edited By', and 'Last Edited On'. Below this is the 'Serial Control' section with tabs for 'Items', 'Units', 'Distributions', 'Subscriptions', and 'Claims'. The 'Subscriptions' tab is active, showing a tree view on the left with 'SL1: Example Sub-library 1' selected. The 'Subscription Details' panel on the right shows a table with one subscription row: # 1, ID 13, Owning Library SL1, Start Date 3/6/13 12:00 AM, End Date 7/30/14 12:00 AM, and Expected Date Offset 00:01:05. Buttons for 'Clone Subscription' and 'Batch Item Receive' are visible.

1. Click the Subscriptions tab.
2. In the tree on the left, select the branch that will own the subscription.
3. Right-click to show the Actions menu, or click Actions for Selected Row, and click Add Subscription.
4. Enter the date that the subscription begins in the Start Date field.
5. Enter the date that the subscription ends in the End Date field. This field is optional.
6. Enter the difference between the nominal publishing date of an issue and the date that you expect to receive your copy in the Expected Date Offset field. For example, if an issue is published the first day of each month, but you receive the copy two days prior to the publication date, then enter -2 days into this field.
7. When finished, click Save. Or to exit the editor without saving, click Cancel.



You can add notes to the subscription by clicking View/Edit Notes. These notes can also be accessed from the Items tab by right-clicking on an item and choosing View Sub. Notes. Also, the

Notes column in the Items tab displays the total notes of each kind (Item notes, then Distribution notes, then Subscription notes).

Create a Distribution

Distributions indicate the branches that should receive copies of a serial. Distributions work together with streams to indicate the number of copies that should be sent to each branch.

From the new combination Serial Control View

The screenshot shows the Serial Control View interface for a record. The record summary includes:

- Title: Africana library journal
- Author:
- Bib Call #: Z3503.A37
- Edition: TCN: 14
- Pub Date: 1970
- Database ID: 14
- Record Owner:
- Created By: admin
- Last Edited By: admin
- Last Edited On: 3/6/13 9:46 AM

The Serial Control panel shows a tree view of the record structure. The 'Subscriptions' tab is selected, showing a list of subscriptions. The 'Subscription Details' panel is open, showing a table of distributions.

✓ #	Label	Holding Lib	Display Grouping	Legacy Record Entry	Receive Unit Template	Summary Method	Unit Label Prefix
1	Branch A 0 stream(s)	SL1	chron			add_to_sre	
2	Branch B 0 stream(s)	SL1	chron			add_to_sre	
3	Default 1 stream(s)	SL1	chron	5	Serials - Weekly BR2	add_to_sre	

1. Choose a subscription from the list on the left
2. In the panel on the right, click the Distributions tab
3. Click the New Distribution button
4. Enter your desired label in the Label field. It may be useful to identify the branch to which you are distributing these issues in this field. This field is not publicly visible and only appears when an item is received. There are no limits on the number of characters that can be entered in this field.
5. Select a Holding Library from the drop down menu. The holding library is the branch that will receive the copies.

6. Select a Display Grouping

7. Choose a Legacy Record Entry to attach to this serial record. The Legacy Record Entry contains the MFHD records that are attached to the bib record if the owning library is identical to the distribution's holding library. A distribution can thus be an extension of an MFHD record.

8. Select a copy template from the Receive Unit Template drop down menu. This menu is populated with the copy templates that you created in Copy Template Editor.

9. Select a Summary method. This determines how the Holdings Summary will treat the Legacy Record Entry (i.e. MFHD record) in relation to the Serial Control holdings data.

- Add to record entry - Displays the MFHD holdings summary first, followed by the summary generated from the Serial Control received issues
- Use record entry only - Displays only the MFHD holdings summary
- Do not use record entry - Displays only the holdings summary generated from Serial Control received issues
- Merge with record entry - Merges the two holdings summaries into a single statement

10 Enter a Unit label prefix. This information will display in Serial Control View when the items are received, but it does not print in the Spine Label printing interface.

11 Enter a Unit label suffix. This information will display in Serial Control View when the items are received, but it does not print in the Spine Label printing interface.

12 Click the Save button to finish.



Label, Holding Library, and Receive Unit Template are required fields when creating a distribution.



Streams are created automatically in the Serial Control View. For information on using Streams in the combination Serial Control View, see [Creating a Stream](#).

From the original Serial Control View

The screenshot displays the Serial Control View interface for a record. At the top, there is a menu bar with options like 'File', 'Edit', 'Search', 'Circulation', 'Cataloging', 'Acquisitions', and 'Booking'. Below the menu bar, there are several icons and buttons for 'Check Out', 'Check In', 'Search Catalog', 'Item Status', 'Patron Search', and 'Patron Registration'. The main content area is divided into several sections:

- Record Summary:** Displays metadata such as Title (Africana library journal), Author, Edition (1970), TCN (14), Database ID (14), Record Owner, and creation/edit dates.
- Serial Control:** A tabbed interface with 'Items', 'Units', 'Distributions', 'Subscriptions', and 'Claims' tabs. The 'Distributions' tab is active.
- Distribution Table:** A table with columns for '#', 'Location', and 'Distributions'. It lists various locations like 'CONS: Example Consortium', 'SYS1: Example System 1', and 'BRL: Example Branch 1' with their respective distribution counts.
- Distribution Form:** A form for adding or modifying a distribution. It includes fields for 'ID', 'Label', 'Summary Method' (with options like 'Add to record entry', 'Unit Label Prefix', 'Unit Label Suffix'), 'Holding Lib', 'Library Specific Options', 'Legacy Record Entry', 'Receive Call Number', 'Bind Call Number', 'Receive Unit Template', and 'Bind Unit Template'.

1. Click Distributions beneath the subscription from the tree on the left. Right click to show the Actions menu, or click Actions for Selected Rows, and click Add distribution.
2. Apply a new label to the distribution. It may be useful to identify the branch to which you are distributing these issues in this field. This field is not publicly visible and only appears when an item is received. There are no limits on the number of characters that can be entered in this field.
3. Select a Summary method. This determines how the Holdings Summary will treat the Legacy Record Entry (i.e. MFHD record) in relation to the Serial Control holdings data.
 - Add to record entry - Displays the MFHD holdings summary first, followed by the summary generated from the Serial Control received issues
 - Use record entry only - Displays only the MFHD holdings summary
 - Do not use record entry - Displays only the holdings summary generated from Serial Control received issues
 - Merge with record entry - Merges the two holdings summaries into a single statement
4. Apply a prefix to the spine label if desired. This information will display in Serial Control View when the items are received, but it does not print in the Spine Label printing interface.
5. Apply a suffix to the spine label if desired. This information will display in Serial Control View when the items are received, but it does not print in the Spine Label printing interface.

6. The holding library is filled in by default and is the library to which you attached the subscription.
7. The Legacy Record Entry contains the MFHD records that are attached to the bib record if the owning library is identical to the distribution's holding library. A distribution can thus be an extension of an MFHD record. Select the MFHD record from the drop down menu.
8. The Receive Call Number field is empty until you receive the first item. When you receive the first item, you are prompted to enter a call number. That call number will populate this drop down menu.
9. The Bind Call Number field is empty until you bind the first item. When you receive the first item, you are prompted to enter a call number. That call number will populate this drop down menu.
- 10 Receive Unit Template - The template that should be applied to copies when they are received. Select a template from the drop down menu.
- 11 Bind Unit Template - The template that should be applied to copies when they are bound. Select a template from the drop down menu.
- 12 When finished, click Create Distribution(s) in the bottom right corner of the screen.
- 13 A confirmation message appears. Click OK.



You can add notes to the distribution by clicking Distribution Notes. These notes can also be accessed from the Items tab by right-clicking on an item and choosing View Dist. Notes. Also, the Notes column in the Items tab displays the total notes of each kind (Item notes, then Distribution notes, then Subscription notes).

Create Captions and Patterns

From the new combination Serial Control View

The Captions and Patterns wizard allows you to enter caption and pattern data as it is described by the 853, 854, and 855 MARC tags. These tags allow you to define how issues will be captioned, and how often the library receives issues of the serial.

1. In the panel on the right, click the Captions and Patterns tab.
2. Click Add New.
3. In the Type drop down menu, select the MARC tag to which you would like to add data.
4. In the Pattern Code text box, you can enter a JSON representation of the 85X tag by hand, or you can click the Wizard to enter the information in a user-friendly format.
5. The Caption and Pattern is Active by default. You can deactivate it at any time by unchecking the box and clicking Save Changes. Only one active caption and pattern is allowed per type.

6. Click Save Changes to finish.
7. To delete a pattern, simply click the red X button.

From the original Serial Control View

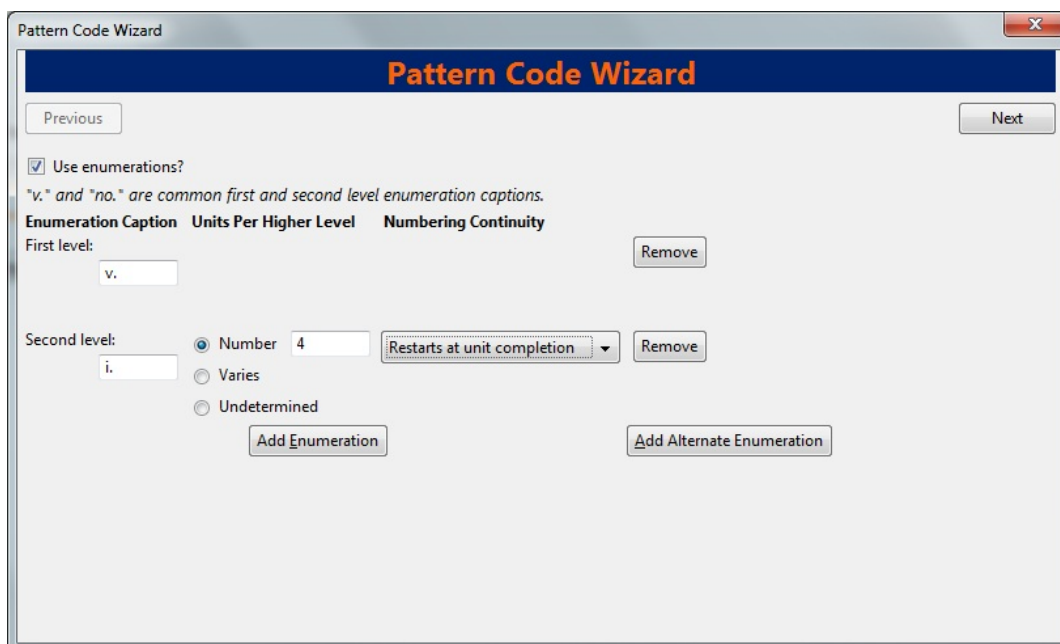
1. Click Captions and patterns beneath the subscription from the tree on the left. Right click to the show the Actions menu, or click Actions for Selected Rows, and click Add Caption/Pattern.
2. Apply a type, which can be for basic subscription, supplements, or indices
3. Apply active. Only one active caption and pattern is allowed per type
4. In the Pattern Code box, you can enter a JSON representation of the 85X tag by hand, or you can click the Pattern Code Wizard to enter the information in a user-friendly format.

Use the Pattern Code Wizard

The Pattern Code Wizard enables you to create the caption of the item and add its publication information. The Wizard is composed of five pages of questions. You can use the Next and Previous navigation buttons in the top corners to flip between pages.

To add a pattern code, click Wizard.

Page 1: Enumerations



The screenshot shows the 'Pattern Code Wizard' dialog box, titled 'Pattern Code Wizard'. It has a blue header bar with the title in orange. Below the header, there are 'Previous' and 'Next' buttons. A checkbox labeled 'Use enumerations?' is checked. Below this, a note states: '"v." and "no." are common first and second level enumeration captions.' There are three columns: 'Enumeration Caption', 'Units Per Higher Level', and 'Numbering Continuity'. Under 'First level:', there is a text box containing 'v.' and a 'Remove' button. Under 'Second level:', there is a text box containing 'i.', a radio button selected for 'Number' with a value of '4', a dropdown menu set to 'Restarts at unit completion', and a 'Remove' button. There are also radio buttons for 'Varies' and 'Undetermined'. At the bottom, there are two buttons: 'Add Enumeration' and 'Add Alternate Enumeration'.

1. To add an enumeration, check the box adjacent to Use enumerations.. The enumerations conform to \$a-\$h of the 853,854, and 855 MARC tags.

2. A field for the First level will appear. Enter the enumeration for the first level. A common first level enumeration is volume, or "v."
3. Click Add Enumeration.
4. A field for the Second level will appear. Enter the enumeration for the second level. A common first level enumeration is number, or "no."
5. Enter the number of bibliographic units per next higher level. This conforms to \$u in the 853, 854, and 855 MARC tags.
6. Choose the enumeration scheme from the drop down menu. This conforms to \$v in the 853, 854, and 855 MARC tags.



You can add up to six levels of enumeration.

7. Add Alternate Enumeration if desired.
8. When you have completed the enumerations, click Next.

Page 2: Calendar

The screenshot shows a window titled "Pattern Code Wizard" with a blue header bar containing the title in orange. Below the header, there are "Previous" and "Next" buttons. A checkbox labeled "Use calendar changes?" is checked. Below this is the instruction: "Identify any points during the year at which the highest level enumeration caption changes." There are two columns: "Type" with a dropdown menu showing "At start of a month" and "Point" with a dropdown menu showing "June". To the right of the "Point" dropdown is a "Remove" button. Below these elements is an "Add Calendar Change" button.

1. To use months, seasons, or dates in your caption, check the box adjacent to Use calendar changes.
2. Identify the point in the year at which the highest level enumeration caption changes.

3. In the Type drop down menu, select the points during the year at which you want the calendar to restart.
4. In the Point drop down menu, select the specific time at which you would like to change the calendar
5. To add another calendar change, click Add Calendar Change. There are no limits on the number of calendar changes that you can add.
6. When you have finished the calendar changes, click Next.

Page 3: Chronology

Pattern Code Wizard

Previous Next

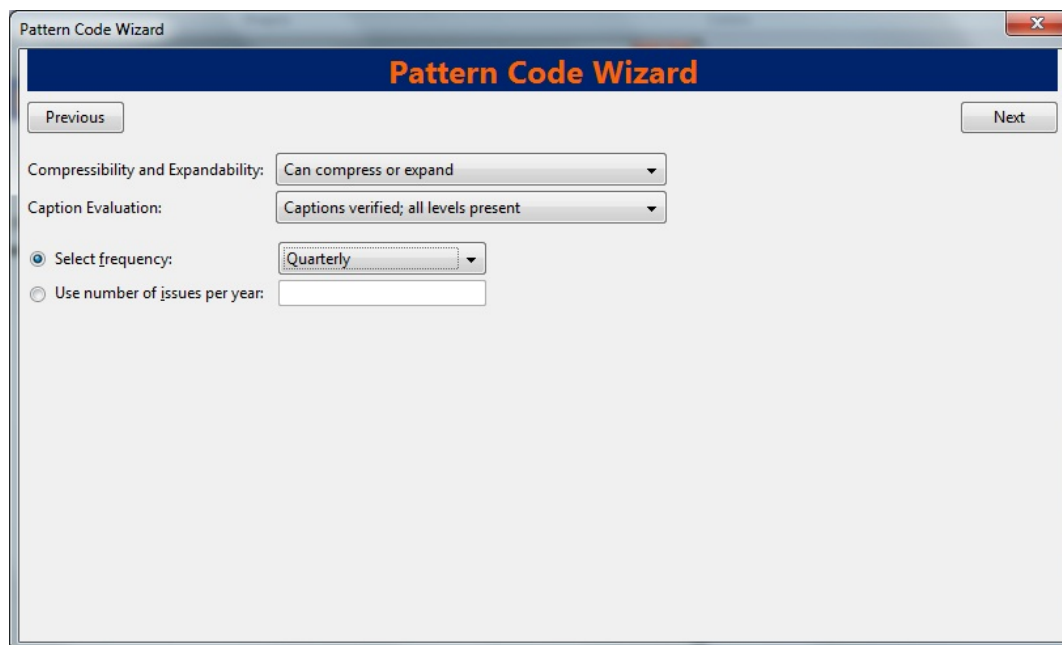
Use chronology captions?
Each caption must be a smaller unit of time than the preceding caption.

Caption	Include this actual word in the caption?	
First level: Year	<input type="checkbox"/>	Remove
Second level: Season	<input type="checkbox"/>	Remove

Add Chronology Caption

1. To add chronological units to the captions, check the box adjacent to Use chronology captions.
2. Choose a chronology for the first level. If you want to display the terms such as "year" and "month" next to the chronology caption in the catalog, then check the box beneath Display in holding field.
3. To include additional levels of chronology, click Add Chronology Caption. Each level that you add must be smaller than the previous level.
4. After you have completed the chronology caption, click Next.

Page 4: Compress and Expand Captions



Pattern Code Wizard

Previous Next

Compressibility and Expandability: Can compress or expand

Caption Evaluation: Captions verified; all levels present

Select frequency: Quarterly

Use number of issues per year:

1. Select the appropriate option for compressing or expanding your captions in the catalog from the compressibility and expandability drop down menu. The entries in the drop down menu correspond to the indicator codes and the subfield \$w in the 853 tag. Compressibility and expandability correspond to the first indicator in the 853 tag.
2. Choose the appropriate caption evaluation from the drop down menu.
3. Choose the frequency of your publication from the drop down menu. For irregular frequencies, you may wish to select use number of issues per year, and enter the total number of issues that you receive each year. However, recommended practice is that you use only regular frequencies. Planned development will create an additional step to aid in the creation of irregular frequencies.
4. Click Next.

Page 5: Regularity Information

Pattern Code Wizard

Previous Next

Use specific regularity information (published, omitted, and/or combined issues)?

Omitted Season Spring X Add sub-row Remove whole row

Add More Regularity Information

1. If needed, check box for Use specific regularity information
2. Choose the appropriate information for combined, omitted or published issues
3. Choose the appropriate frequency and issue
4. Add additional rows as required

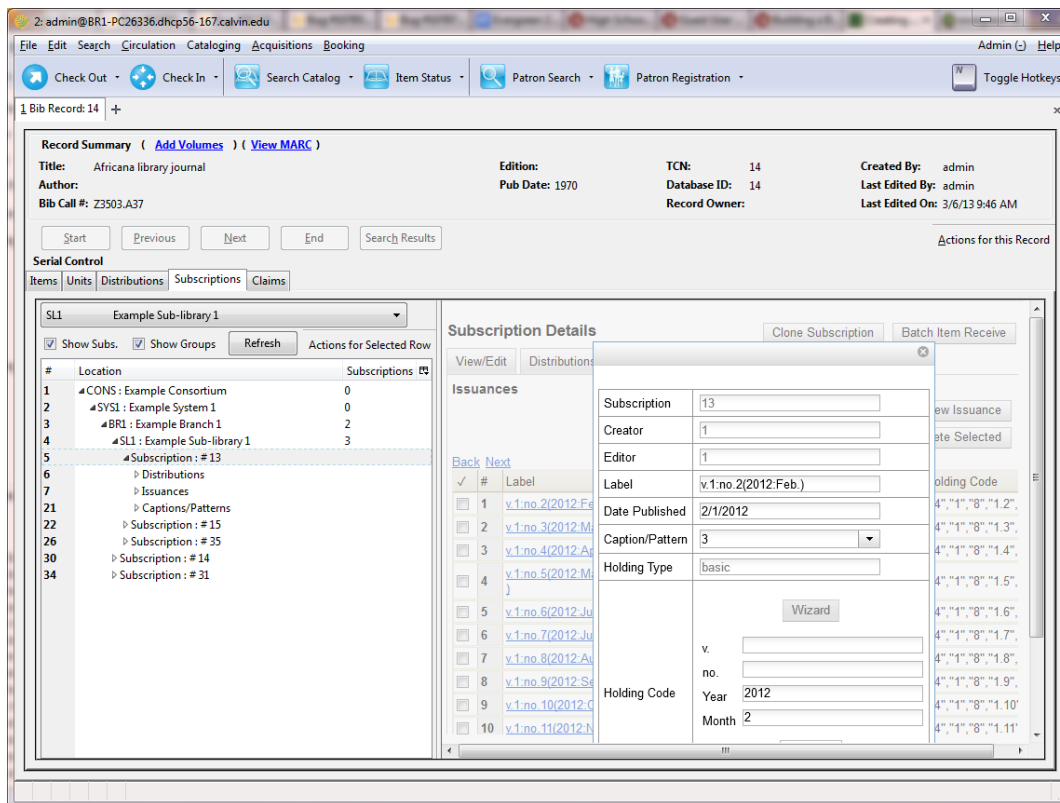
Page 5: Finish Captions and Patterns

1. To complete the wizard, click Create Pattern Code.
2. Return to Subscription Details.
3. Confirm that the box adjacent to Active is checked. Click Save Changes. The row is now highlighted gray instead of orange.

Creating an Issuance

The Issuances function enables you to manually create an issue. Evergreen will use the initial issue that you manually create to predict future issues.

From the new combination Serial Control View



1. In the panel on the right, click the Issuances tab.
2. Click New Issuance.
3. The Subscription, Creator, and Editor fields contain subscription and user IDs, respectively. These fields are disabled because Evergreen automatically fills in these fields.
4. Enter a name for this issuance in the Label field. There are no limits on the number of characters that can be entered in this field. You may want to enter the month and year of the publication in hand.
5. Enter the Date Published of the issuance. If you are creating one manual issue before automatically predicting more issues, then this date should be the date of the most current issue before the prediction starts.
6. Select a Caption/Pattern from the drop down menu. The numbers in the drop down menu correspond to the IDs of the caption/patterns that you created.
7. The Holding Type appears by default and corresponds to the Type that you selected when you created the Caption/Pattern.
8. In the holding code area of the New Issuance dialog, click Wizard. The Wizard enables you to add holdings information.
9. Enter the volume of the item in hand in the v. field.

10 Enter the number of the item in hand in the no. field.

11 Enter the year of publication in the Year field.

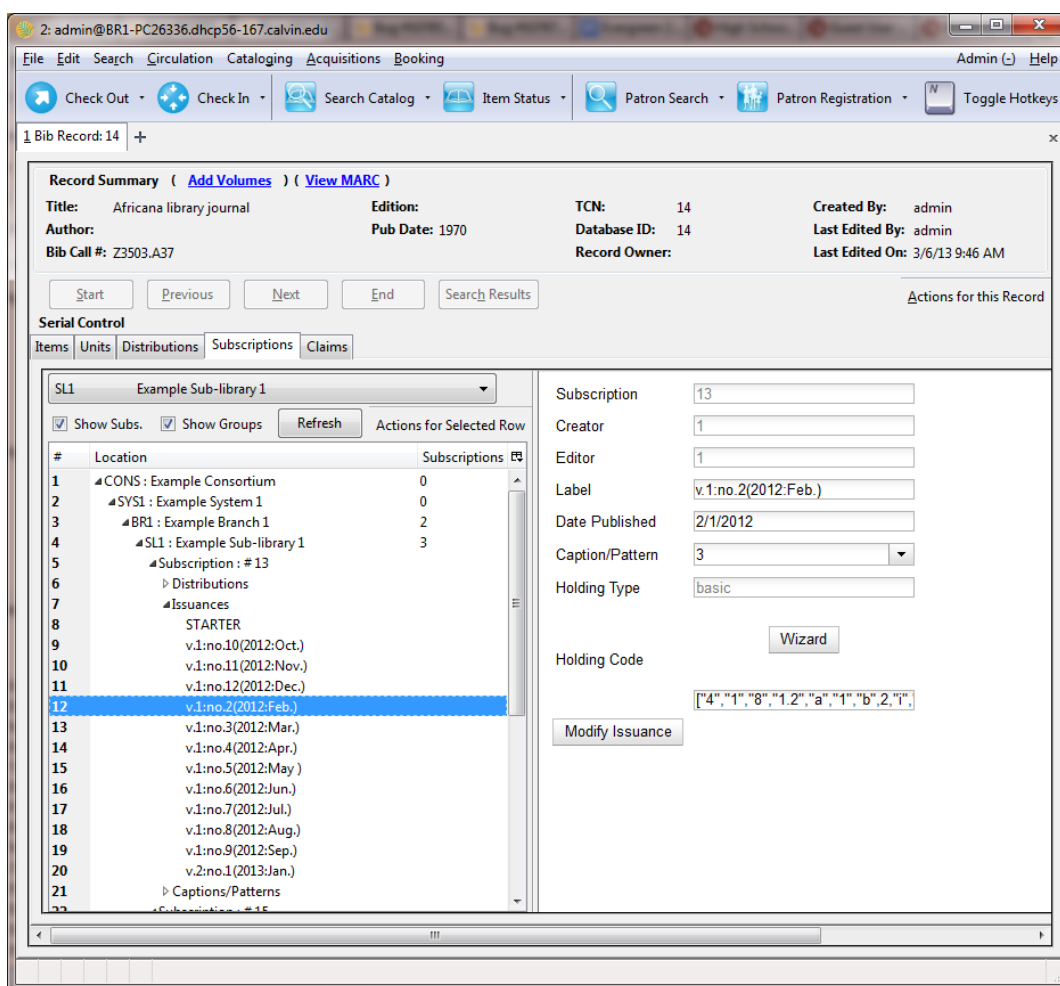
12 Enter the month of publication in the Month field if applicable. You must enter the calendar number of the month rather than the name of the month. For example, enter 12 if the item in hand was published in December.

13 Enter the day of publication in the day field if applicable.

14 Click Compile to generate the holdings code.

15 Click Save to finish.

From the original Serial Control View



1. Click Issuances beneath the subscription from the tree on the left. Right click to show the Actions menu, or click Actions for Selected Rows, and click Add Issuance.

2. As of Evergreen 2.2, the Issuance editor is the same as mentioned above in the new combination view.

Generate Prediction

1. Select the Subscription in the tree on the left.
2. Right-click to show the Actions menu, or click Actions for Selected Row, then click Make predictions.
3. A pop up box will ask you how many items you want to predict. Enter the number, and click OK.
4. A confirmation message will appear. Click OK.
5. To view the predicted issues, select a Subscription from the tree on the left, then click the Issuances tab in the panel on the right.

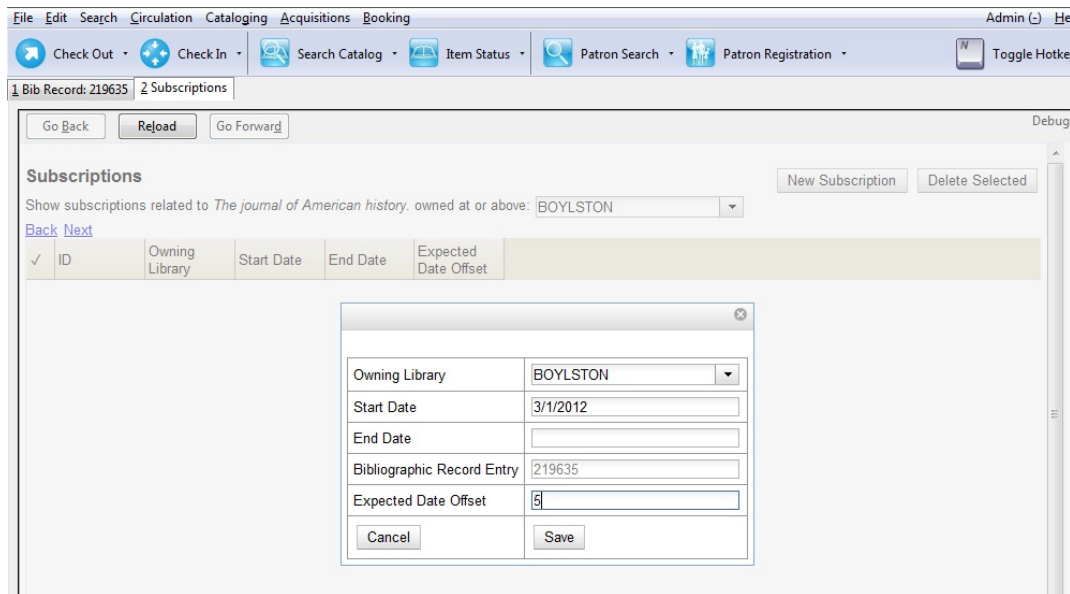
Chapter 104. Alternate Serial Control View

Using the Alternate Serial Control View, you can create a subscription, a distribution, a stream, and a caption and pattern, and you can generate predictions and receive issues. To access Alternate Serial Control View, open a serials record, and click Actions for this Record → Alternate Serial Control. This opens the Subscriptions interface

1. Create a subscription
2. Create a distribution
3. Create a a stream (within the distribution)
4. Create a caption and pattern (or import from bibliographic or legacy serial records)
5. Create at least the first issuance and generate predictions

Creating a Subscription

A subscription is designed to hold all information related to a single serial title. Therefore, each library is likely to have only one subscription per serial title.



1. Add new subscriptions to a serials record that exists in the catalog.
2. Create a subscription
3. Click New Subscription.
4. Select an owning library. The owning library indicates the organizational unit(s) whose staff can use this subscription. This menu is populated with the shortnames that you created for your libraries in the organizational units tree in Admin → Server Administration → Organizational Units. The rule of parental inheritance applies to this list. For example, if a system is made the owner

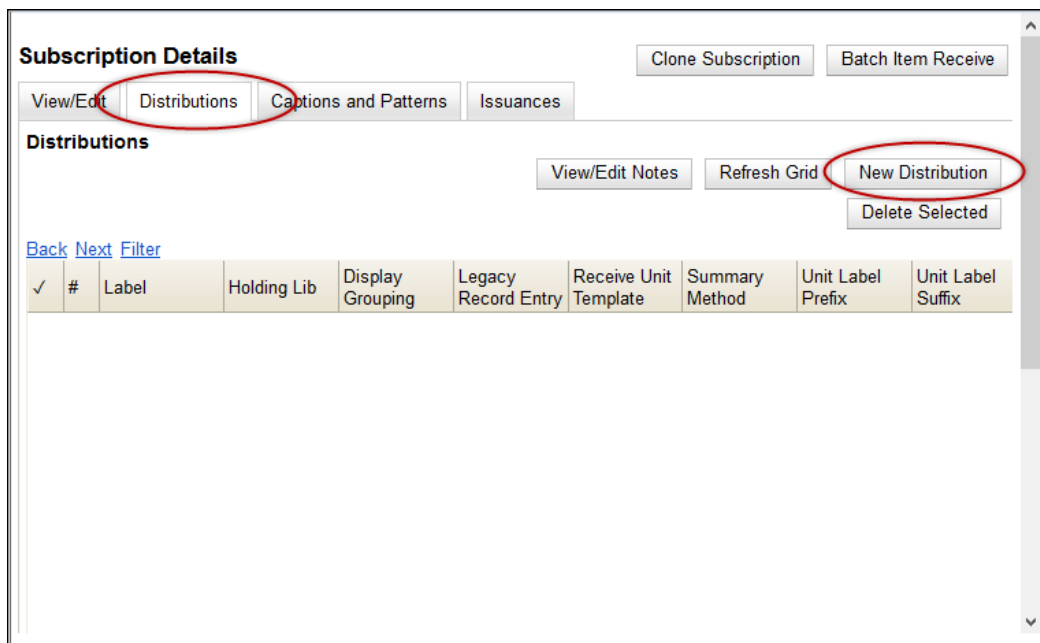
of a subscription, then users, with appropriate permissions, at the branches within the system could also use this subscription.

5. Enter the date that the subscription begins in the start date. Recommended practice is that you select the date from the drop down calendar although you can manually enter a date. Owning library and start date are required fields in the new subscription pop up box.
6. Enter the date that the subscription ends in the end date. Recommended practice is to select a date from the drop down calendar, but you can manually enter a date, also.
7. Enter the difference between the nominal publishing date of an issue and the date that you expect to receive your copy in the Expected Date Offset. For example, if an issue is published the first day of each month, but you receive the copy two days prior to the publication date, then enter -2 days into this field.
8. Click Save.

After you save the subscription, it will appear in a list with a hyperlinked ID number. Use the drop down menu at the top of the screen to view subscriptions at other organizations.

Creating a Distribution

Distributions indicate the branches that should receive copies of a serial. Distributions work together with streams to indicate the number of copies that should be sent to each branch.



1. Click the Distributions tab.
2. Click New Distribution.
3. Enter a name for the distribution in the Label field. It may be useful to identify the branch to which you are distributing these issues in this field. This field is not publicly visible and only

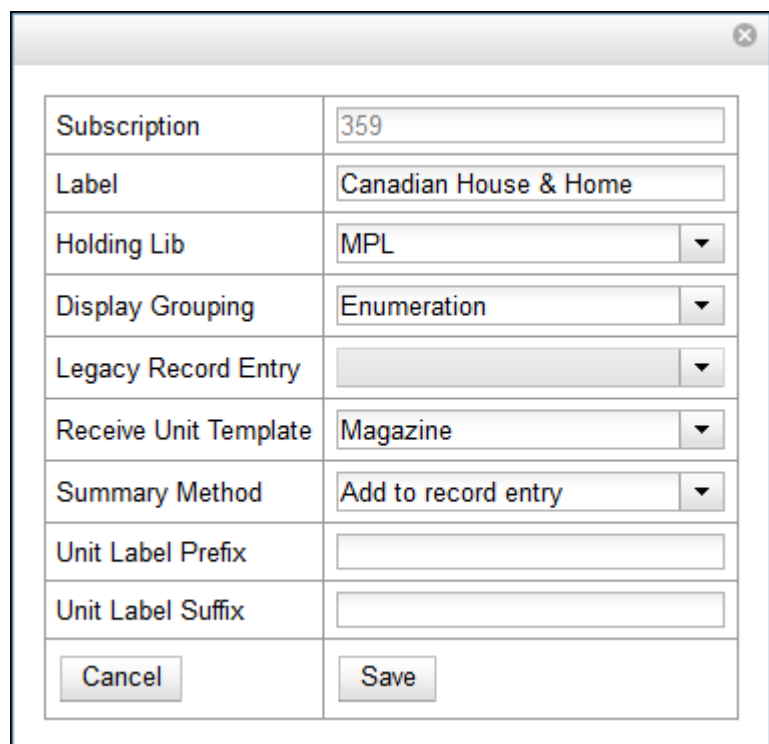
appears when an item is received. There are no limits on the number of characters that can be entered in this field.

4. Select a holding library from the drop down menu. The holding library is the branch that will receive the copies.
5. Select a copy template from the Receive Unit Template drop down menu. This menu is populated with the copy templates that you created in Copy Template Editor.



Label, Holding Library, and Receive Unit Template are required fields in the new distribution pop up box.

6. Ignore the fields, Unit Label Prefix and Unit Label Suffix. These fields are not functional in Alternate Serial Control View.

A screenshot of a software dialog box for creating a new distribution. The dialog has a title bar with a close button (X) in the top right corner. It contains a table of fields with labels on the left and input areas on the right. The fields are: Subscription (text input with '359'), Label (text input with 'Canadian House & Home'), Holding Lib (dropdown menu with 'MPL'), Display Grouping (dropdown menu with 'Enumeration'), Legacy Record Entry (dropdown menu), Receive Unit Template (dropdown menu with 'Magazine'), Summary Method (dropdown menu with 'Add to record entry'), Unit Label Prefix (empty text input), and Unit Label Suffix (empty text input). At the bottom, there are two buttons: 'Cancel' on the left and 'Save' on the right.

Subscription	359
Label	Canadian House & Home
Holding Lib	MPL
Display Grouping	Enumeration
Legacy Record Entry	
Receive Unit Template	Magazine
Summary Method	Add to record entry
Unit Label Prefix	
Unit Label Suffix	
Cancel	Save

7. Click Save. The distribution will appear in a list in the Distributions tab in the Subscription Details.

Creating a Stream

Distributions work together with streams to indicate the number of copies that should be sent to each branch. Distributions identify the branches that should receive copies of a serial. Streams identify how many copies should be sent to each branch. Streams are intended for copies that are received on a recurring, even if irregular, basis.

1. Click the hyperlinked title of the distribution. The number of streams that have already been created for this distribution displays adjacent to the title. You can choose one of two ways to create a stream: New Stream or Create Many Streams. The New Stream button allows you to create one new stream and assign it a routing label.
2. Click New Stream
3. Enter a routing label so that the copy could be read by specific users or departments before the copy is shelved. The routing label appears during receiving and could be added to routing lists; it is not viewable by the public. Routing lists do not print from in 2.0. This field is optional.
4. Click Save.



The "Create Many Streams button" allows you to create multiple streams at once, but it does not allow you to add a routing label when you create the stream.

5. Click Create Many Streams.
6. Enter the number of streams that you want to create in the How many. Field.
7. Click Create.

Creating a Routing List

Within Alternate Serial Control View, you have the option to create routing lists for selected streams. Routing lists enable you to designate specific users and/or departments that serial items need to be routed to upon receiving. These routing lists can now display user addresses when you receive the items. This feature is particularly useful for working with homebound patrons.

Create a Routing List in Alternate Serial Control View that will display the User's Address:

1. Select the checkbox for the stream that needs a routing list
2. Click Routing List for Selected Stream
3. Click the Reader (barcode): radio button and enter the user's barcode into the field
4. Click Add
5. Click Save Changes

When you receive the item in Serials Batch Receive or from within Alternate Serial Control's Batch Item Receive, the routing list will print the user's address. For more information, see the chapter on Batch Receiving.

Urban farm

v2:n2

(MAIN) Distribute to LAW / 383332

1. Reader: 383332 / Smith, Bryan Glenn (HOOD)
 9076 Relation Union
 Wagner, SD 57380
 USA
 9076 Relation Union
 Wagner, SD 57380
 USA

The default template can be configured to not include the user's mailing or billing address on the routing list. Libraries already using customized templates will not be affected.

Creating a Caption and Pattern

The Captions and Patterns wizard allows you to enter caption and pattern data as it is described by the 853, 854, and 855 MARC tags. These tags allow you to define how issues will be captioned, and how often the library receives issues of the serial.

1. Open the Subscription Details.

2. Click the Captions and Patterns tab.
3. Click Add Caption and Pattern.
4. In the Type drop down box, select the MARC tag to which you would like to add data.
5. In the Pattern Code drop down box, you can enter a JSON representation of the 85X tag by hand, or you can click the Wizard to enter the information in a user-friendly format.
6. The Caption and Pattern that you create is Active by default, but you can deactivate a caption and pattern at a later time by unchecking the box.



A subscription may have multiple captions and patterns listed in the subscription details, but only one Caption and Pattern can be active at any time. If you want to add multiple patterns, e.g. for Basic and Supplement, Click Add Caption and Pattern.

Use the Pattern Code Wizard

The Pattern Code Wizard enables you to create the caption of the item and add its publication information. The Wizard is composed of five pages of questions. You can use the Next and Previous navigation buttons in the top corners to flip between pages.

To add a pattern code, click Wizard.

Page 1: Enumerations

The screenshot shows the 'Pattern Code Wizard' window. At the top, there is a title bar with 'Pattern Code Wizard' and a close button. Below the title bar is a dark blue header with 'Pattern Code Wizard' in orange text. The main area contains a 'Previous' button on the left and a 'Next' button on the right. A checkbox labeled 'Use enumerations?' is checked. Below this, a note states: '"v." and "no." are common first and second level enumeration captions.' There are three columns: 'Enumeration Caption', 'Units Per Higher Level', and 'Numbering Continuity'. Under 'Enumeration Caption', there is a text box containing 'v.' and a 'Remove' button. Under 'Units Per Higher Level', there is a radio button for 'Number' (selected), a text box with '4', a dropdown menu with 'Restarts at unit completion', and a 'Remove' button. Under 'Numbering Continuity', there are radio buttons for 'Varies' and 'Undetermined'. At the bottom, there are two buttons: 'Add Enumeration' and 'Add Alternate Enumeration'.

1. To add an enumeration, check the box adjacent to Use enumerations. The enumerations conform to \$a-\$h of the 853,854, and 855 MARC tags.

2. A field for the First level will appear. Enter the enumeration for the first level. A common first level enumeration is volume, or "v."
3. Click Add Enumeration.
4. A field for the Second level will appear. Enter the enumeration for the second level. A common first level enumeration is number, or "no."
5. Enter the number of bibliographic units per next higher level. This conforms to \$u in the 853, 854, and 855 MARC tags.
6. Choose the enumeration scheme from the drop down menu. This conforms to \$v in the 853, 854, and 855 MARC tags.



You can add up to six levels of enumeration.

7. Add Alternate Enumeration if desired.
8. When you have completed the enumerations, click Next.

Page 2: Calendar

The screenshot shows a window titled "Pattern Code Wizard" with a blue header bar containing the text "Pattern Code Wizard" in orange. Below the header, there are "Previous" and "Next" buttons. A checkbox labeled "Use calendar changes?" is checked. Below this, the text reads "Identify any points during the year at which the highest level enumeration caption changes." There are two columns: "Type" with a dropdown menu set to "At start of a month" and "Point" with a dropdown menu set to "June". Below these columns is an "Add Calendar Change" button. To the right of the "Point" dropdown is a "Remove" button.

1. To use months, seasons, or dates in your caption, check the box adjacent to Use calendar changes.
2. Identify the point in the year at which the highest level enumeration caption changes.

3. In the Type drop down menu, select the points during the year at which you want the calendar to restart.
4. In the Point drop down menu, select the specific time at which you would like to change the calendar
5. To add another calendar change, click Add Calendar Change. There are no limits on the number of calendar changes that you can add.
6. When you have finished the calendar changes, click Next.

Page 3: Chronology

Pattern Code Wizard

Previous Next

Use chronology captions?
Each caption must be a smaller unit of time than the preceding caption.

Caption	Include this actual word in the caption?
First level: Year	<input type="checkbox"/>
Second level: Season	<input type="checkbox"/>

Remove Remove

Add Chronology Caption

1. To add chronological units to the captions, check the box adjacent to Use chronology captions.
2. Choose a chronology for the first level. If you want to display the terms, "year" and "month" next to the chronology caption in the catalog, then check the box beneath Display in holding field.
3. To include additional levels of chronology, click Add Chronology Caption. Each level that you add must be smaller than the previous level.
4. After you have completed the chronology caption, click Next.

Page 4: Compress and Expand Captions

Pattern Code Wizard

Previous Next

Compressibility and Expandability: Can compress or expand

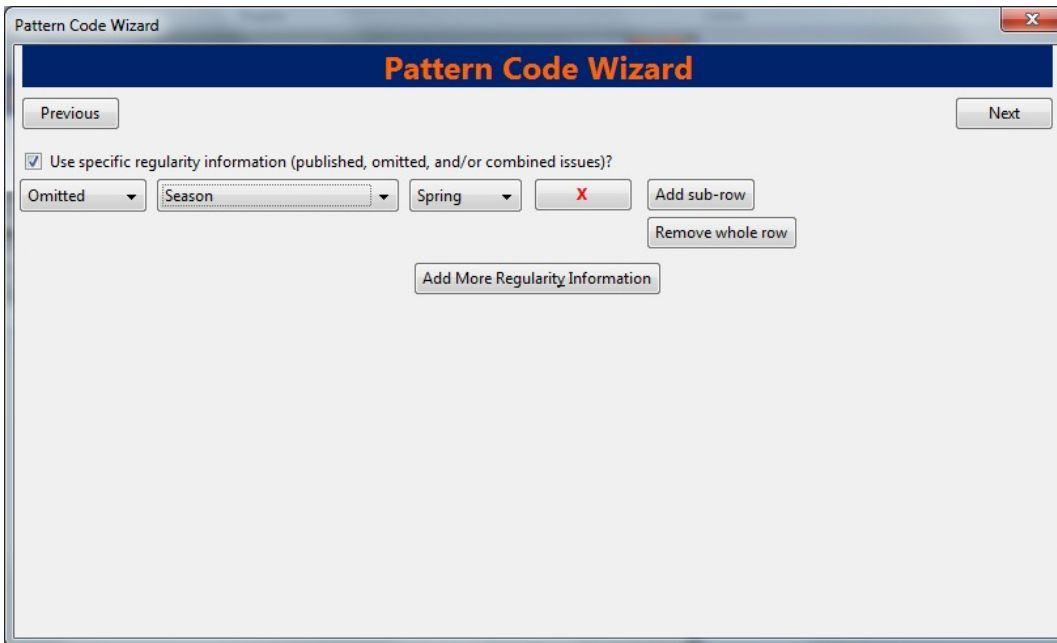
Caption Evaluation: Captions verified; all levels present

Select frequency: Quarterly

Use number of issues per year:

1. Select the appropriate option for compressing or expanding your captions in the catalog from the compressibility and expandability drop down menu. The entries in the drop down menu correspond to the indicator codes and the subfield \$w in the 853 tag. Compressibility and expandability correspond to the first indicator in the 853 tag.
2. Choose the appropriate caption evaluation from the drop down menu.
3. Choose the frequency of your publication from the drop down menu. For irregular frequencies, you may wish to select use number of issues per year, and enter the total number of issues that you receive each year. However, recommended practice is that you use only regular frequencies. Planned development will create an additional step to aid in the creation of irregular frequencies.
4. Click Next.

Page 5: Regularity Information



The screenshot shows a window titled "Pattern Code Wizard" with a blue header bar containing the text "Pattern Code Wizard" in orange. Below the header, there are "Previous" and "Next" buttons. A checked checkbox is labeled "Use specific regularity information (published, omitted, and/or combined issues)?". Below this, there are three dropdown menus: "Omitted", "Season", and "Spring". To the right of the "Spring" dropdown is a red "X" button. Further right are "Add sub-row" and "Remove whole row" buttons. At the bottom center is an "Add More Regularity Information" button.

1. If needed, check box for Use specific regularity information
2. Choose the appropriate information for combined, omitted or published issues
3. Choose the appropriate frequency and issue
4. Add additional rows as required

Page 5: Finish Captions and Patterns

1. To complete the wizard, click Create Pattern Code.
2. Return to Subscription Details.
3. Confirm that the box adjacent to Active is checked. Click Save Changes. The row is now highlighted gray instead of orange.

Creating an Issuance

The Issuances tab enables you to manually create an issue. Evergreen will use the initial issue that you manually create to predict future issues.

Subscription Details

Summary	Distributions	Captions and Patterns	Issuances
---------	---------------	-----------------------	-----------

Issuances

[Back](#) [Next](#)

Subscription

Creator

Editor

Label

Date Published

Caption/Pattern

Holding Type

v.

i.

Holding Code Year

Season

1. Click the Issuances tab in the Subscription Details.
2. Click New Issuance.
3. The Subscription, Creator, and Editor fields contain subscription and user IDs, respectively. These fields are disabled because Evergreen automatically fills in these fields.
4. Enter a name for this issuance in the Label field. There are no limits on the number of characters that can be entered in this field. You may want to enter the month and year of the publication in hand.

5. Enter the Date Published of the issuance that you are editing. Recommended practice is that you select the date from the drop down calendar although you can manually enter a date. If you are creating one manual issue before automatically predicting more issues, then this date should be the date of the most current issue before the prediction starts.
6. Select a Caption/Pattern from the drop down menu. The numbers in the drop down menu correspond to the IDs of the caption/patterns that you created.
7. The Holding Type appears by default and corresponds to the Type that you selected when you created the Caption/Pattern.
8. In the holding code area of the New Issuance dialog, click Wizard. The Wizard enables you to add holdings information.
9. Enter the volume of the item in hand in the v. field.
10. Enter the number of the item in hand in the no. field.
11. Enter the year of publication in the Year field.
12. Enter the month of publication in the Month field if applicable. You must enter the calendar number of the month rather than the name of the month. For example, enter 12 if the item in hand was published in December.
13. Enter the day of publication in the day field if applicable.
14. Click Compile to generate the holdings code.

Generate Item Predictions

After you manually create the first issue, Evergreen will predict future issuances. Use the Generate Predictions functionality to predict future issues.

1. Click Subscription Details → Issuances → Generate Predictions.
2. Choose the length of time for which you want to predict issues. If you select the radio button to predict until end of subscription, then Evergreen will predict issues until the end date that you created when you created the subscription. See [creating a subscription](#) for more information. If you do not have an end date, select the radio button to predict a certain number of issuances, and enter a number in the field.
3. Click Generate.
4. Evergreen will predict a run of issuances and copies. The prediction will appear in a list.
5. You can delete the first, manual issuance by clicking the check box adjacent to the issuance and clicking Delete Selected.

Chapter 105. Edit Subscriptions

Subscriptions can be edited to change the caption and pattern and other information.

Serials Control View

1. To access Serial Control View, open a serials record, and click Actions for this Record → Serial Control. This opens the Subscriptions interface
2. Click the subscriptions tab
3. Click on the appropriate link to edit

Alternate Serials Control View

1. To access Alternate Serial Control View, open a serials record, and click Actions for this Record → Alternate Serial Control. This opens the Subscriptions interface
2. Click the hyperlinked ID number to edit the subscription.
3. Click on the appropriate tab to edit the information

Chapter 106. Receiving

You can receive either through the Serials Control View or in Batch Receive with the simple or advanced interface.

Serials Control View Receiving

Record Summary (Add Volumes) (View MARC)

Title: Africana library journal Edition: TCN: 3 Created By: admin
Author: Pub Date: 1970 Database ID: 3 Last Edited By: admin
Bib Call #: Z3503.A37 Record Owner: Last Edited On: 10/4/13 5:16 PM

Start Previous Next End Search Results Actions for this Record

Serial Control

Items Units Distributions Subscriptions Claims

Subscriber: BRL Example Branch 1 Mode: Receive Adv. Receive Bind Show All Refresh Actions for Selected Rows

#	Item ID	Issuance Label	Distribution	Holder	Stream ID	Date Published	Date Expected	Date Received	Notes (Item/Dist/Sub)	Call Number	Unit ID / Contents	Date Last Edited
1	11	(2013:Sep.23)	New Period...	BRL	1	2013-09-23	2013-09-23		0 / 1 / 1			2013-09-30
2	12	(2013:Sep.30)	New Period...	BRL	1	2013-09-30	2013-09-30		3 / 1 / 1			2013-09-30
3	13	(2013:Oct.07)	New Period...	BRL	1	2013-10-07	2013-10-09		0 / 1 / 1			2013-10-18
4	14	(2013:Oct.14)	New Period...	BRL	1	2013-10-14	2013-10-16		0 / 1 / 1			2013-10-18
5	15	(2013:Oct.21)	New Period...	BRL	1	2013-10-21	2013-10-23		0 / 1 / 1			2013-10-18
6	16	(2013:Oct.28)	New Period...	BRL	1	2013-10-28	2013-10-30		0 / 1 / 1			2013-10-18
7	17	(2013:Nov.04)	New Period...	BRL	1	2013-11-04	2013-11-06		0 / 1 / 1			2013-10-18
8	18	(2013:Nov.11)	New Period...	BRL	1	2013-11-11	2013-11-13		0 / 1 / 1			2013-10-18
9	19	(2013:Nov.18)	New Period...	BRL	1	2013-11-18	2013-11-20		0 / 1 / 1			2013-10-18

Showing: Recently Received 0 Alerts Receive/Move Selected ↓

Current Working Unit: **Auto per Item** Set Current Unit

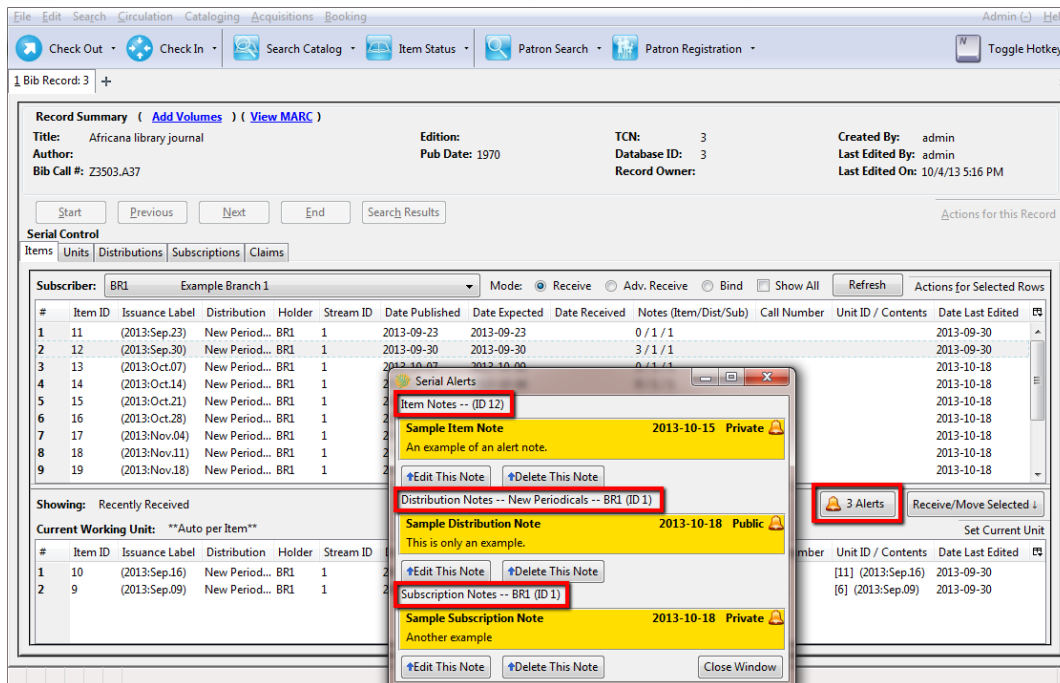
#	Item ID	Issuance Label	Distribution	Holder	Stream ID	Date Published	Date Expected	Date Received	Notes (Item/Dist/Sub)	Call Number	Unit ID / Contents	Date Last Edited
1	10	(2013:Sep.16)	New Period...	BRL	1	2013-09-16	2013-09-16	2013-10-04	0 / 1 / 1	11111	[11] (2013:Sep.16)	2013-09-30
2	9	(2013:Sep.09)	New Period...	BRL	1	2013-09-09	2013-09-09	2013-09-30	0 / 1 / 1	11111	[6] (2013:Sep.09)	2013-09-30

1. To receive items, click the Receive radio button. In the top pane, the items that have yet to be received are displayed. In the bottom pane, recently received items are displayed with the most recent at the top.
2. Select the branch that will receive the items from the drop down box.
3. Select the item that you want to receive.
4. Select the current working unit. Click Set Current Unit, located in the lower right corner of the screen. A drop down menu will appear.
 - If you want to barcode each item individually, select Auto per item. This setting is recommended for most receiving processes.
 - If you want each item within a unit to share the same barcode, then select New Unit. This setting is advised for most binding processes.
 - If you want the item to be received or bound into an existing item, select Recent and select the desired item from the menu. To make a change in bound items, receive or bind the items into an already existing unit.
5. Click Receive/Move Selected.

6. Enter a barcode and call number if prompted to do so.
7. A message confirming receipt of the item appears. Click OK.
8. The screen refreshes. Now the item has moved from the top pane to the bottom pane. (If you have checked "Show all", the item also remains in the top pane, with a received date added to it.) In the bottom pane, the item that you have just received is now at the top of the list of the received items.

After receiving items, you can view the updated holdings in the OPAC.

Notes in the Receiving Interface

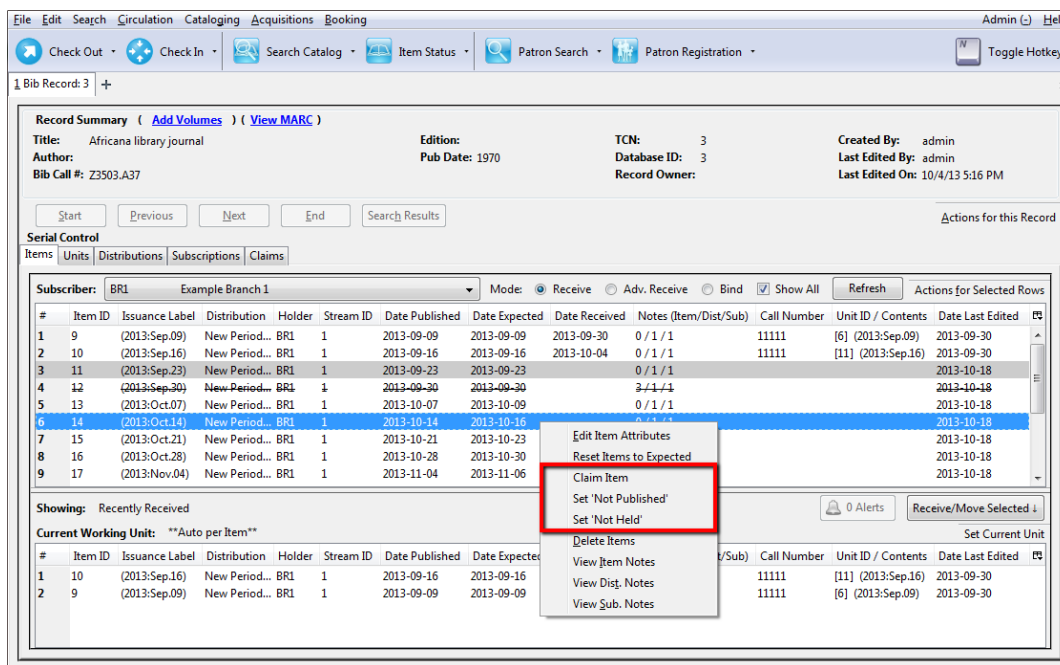


The total number of notes for each item is displayed in the "Notes" column in the Items tab. The column header says "Notes (Item/Dist/Sub)" to explain how the numbers are organized in the column: First is the total number of Item Notes on that item, second is the number of Distribution Notes for that item's distribution, and last is the number of Subscription Notes on that item's subscription. To view and modify any of these notes, right-click on an item and click View Sub. Notes, View Dist. Notes or View Item Notes.

Serial Alerts At Receive Time

In the Serial Control View, you can now flag a note as an "alert" to make it more visible on the receiving interface. This flag is available as a checkbox on subscription, distribution and item notes. The new Alerts button on the Items tab displays the number of alert notes that are available for the selected items, and clicking this button opens a window which displays all applicable alert notes, sorted by type. Notes can also be edited or deleted from this window.

Set Special Statuses



The Serial Control interface prevents direct editing of serial item statuses for data integrity reasons. As an alternative to direct control, the interface offers menu options for setting items to claimed, not held, and not published. Note that these statuses are still currently useful for reporting and display purposes only. The claimed status changes the display but does not yet connect with the Acquisitions module in any way. Also note that, once you set an item to not held or not published, that item will be hidden from the list unless you check the Show All checkbox.

Batch Receiving

You can batch receive items through a simple or an advanced interface. The simple interface does not allow you to add barcodes or use the copy template. These items are also not visible in the OPAC. The advanced interface enables you to use the copy templates that you created, add barcodes, and make items OPAC visible and holdable.

You can access both Batch Receive interfaces from two locations in the ILS. From the Subscription Details screen, you can click Batch Item Receive. You can also access these interfaces by opening the catalog record for the serial, and clicking Actions for this Record → Serials Batch Receive.

Simple Batch Receiving

Follow these steps to receive items in batch in a simple interface.

Title: The journal of American history
 Author: Organization of American Historians
 Fulfilling Subscription: 8: (BOYLSTON) 3/1/12 -
 Issuance: v.99:i.3(2012:Autumn)

Org Unit	Note	Routing List	Receive?
	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BOYLSTON	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

1. The Batch Receive interface displays issues that have not yet been received. The earliest expected issue appears at the top of the list.
2. In the right lower corner, you see a check box to Create Units for Received Items. If you do not check this box, then you will receive items in simple mode.
3. Click Next.
4. In simple mode, the distributions that you created are displayed. They are marked received by default. If you hover over the branch name, you can view the name of the distribution and its stream.
5. You can receive and add a note to each item individually, or you can perform these actions on all of the distributions and streams at once. To do so, look above the line, and enter the note that you want to apply to all copies and confirm that the box to Receive is checked.
6. Click Apply. The note should appear in the note field in each distribution.
7. Then click Receive Selected Items.
8. The received items are cleared from the screen.

Advanced Batch Receiving

Follow these steps to receive items in batch in a simple interface.

Title: The journal of American history
 Author: Organization of American Historians
 Fulfilling Subscription: 8: (BOYLSTON) 3/1/12 -
 Issuance: v.99:i.3(2012:Autumn)

Org Unit	Note	Routing List	Receive?
	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
BOYLSTON	<input type="text"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

1. The Batch Receive interface displays issues that have not yet been received. The earliest expected issue appears at the top of the list.
2. If you want to barcode each copy, display it in the catalog, and make it holdable, then check the box adjacent to Create Units for Received Items in the lower right side of the screen.
3. This will allow you to utilize the copy templates and input additional information about the copy:
4. Barcode - You can scan printed barcodes into the barcode field for each copy, or you can allow the system to auto-generate barcodes. To auto-generate barcodes, check the box adjacent to Auto-generate, and enter the first barcode into the barcode field in the first row of the table. Then press the Tab key. The remaining barcode fields will automatically populate with the next barcodes in sequence, including check digits.
5. Circ Modifiers - The circ modifiers drop down menu is populated with the circulation modifiers that you created in Admin → Server Administration → Circulation Modifiers. If you entered a circ modifier in the copy template that you created for this subscription, then it will appear by default in the distributions.
6. Call Number - Enter a call number. Any item with a barcode must also have a call number.
7. Note - Add a note. There are no limits on the number of characters that can be entered in this field. The note only displays in this screen.
8. Copy Location - The copy location drop down menu is populated with the copy locations that you created in Admin → Local Administration → Copy Location Editor. If you entered a copy location in the copy template that you created for this subscription, then it will appear by default in the distributions.
9. Price - If you entered a price in the copy template that you created for this subscription, then it will appear by default in the distributions. You can also manually enter a price if you did not include one in the copy template.
10. Receive - The boxes in the Receive column are checked by default. Uncheck the box if you do not want to receive the item. Evergreen will retain the unreceived copies and will allow you to receive them at a later time.

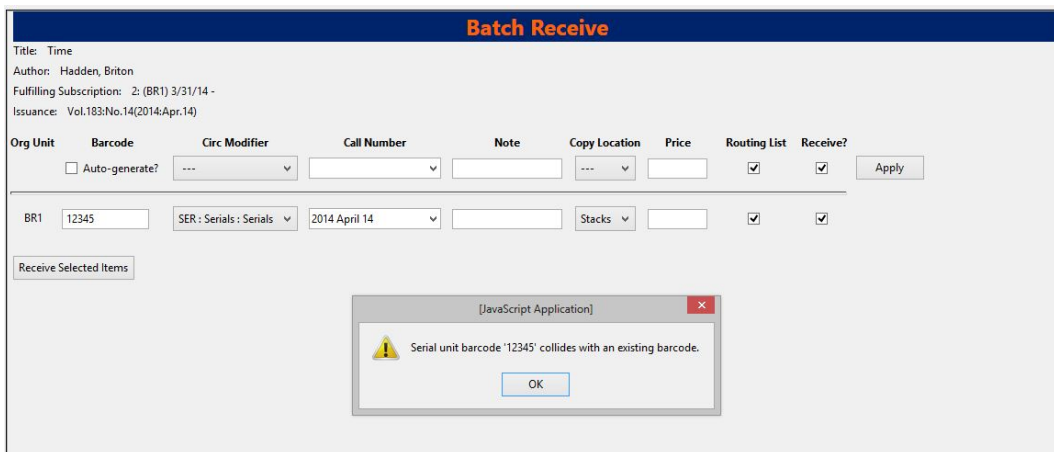
11When you are ready to receive the items, click Receive Selected Items.

12The items that have been received are cleared from the Batch Receive interface. The remaining disabled item is an unreceived item.

13If the items that you received have a barcode, a copy template that was set to OPAC Visible, and are assigned a shelving location that is OPAC Visible, then you can view the received items in the catalog. Notice that the Holdings Summary has been updated to reflect the most recent addition to the holdings.

Duplicate Barcode Alert

Evergreen will now display an alert if a duplicate barcode is entered in the Serials Batch Receive interface. If a staff member enters a barcode that already exists in the database while receiving new serials items in the Serials Batch Receive interface, an alert message will pop up letting the staff member know that the barcode is a duplicate. After the staff member clicks OK to clear the alert, he or she can enter a new barcode.



Chapter 107. Special Issues

Currently, creating a special issue can only be done through the Alternate Serials Control View.

1. Create an issuance in the Serials Control View or the Alternate Serials Control View
2. In the Alternate Serials Control View, click on the name of your special issue in the list of issuances.
3. Click the New Items button
4. Enter the appropriate information
5. The item is now ready to receive. If you complete the Date Received field and change the status to received then it will receive the issue but it won't create the associated copy record whereas if you leave it blank and receive the item through the Serials Control View or Batch Receive function you can create the Copy Record at that time.

Chapter 108. Holdings

System Generated Holdings Statement

As issues are received, Evergreen creates a holding statement in the OPAC based on what is set up in the Caption and Patterns of the subscription. The systems generated holdings can only be edited by changing caption and pattern information and there is no ability to edit the statement as free text.

MARC Format for Holdings Display (MFHD)

Evergreen users can create, edit and delete their own MFHD.

Create an MFHD record

1. Open a serial record, and in the bottom right corner above the copy information, click Add MFHD Record. You can also add the MFHD statement by clicking Actions for this Record → MFHD Holdings → Add MFHD Record.
2. A message will confirm that you have created the MFHD Record. Click OK.
3. Click Reload in the top left corner of the record.
4. The Holdings Summary will appear. Click Edit Holdings in the right corner.
5. Click Edit Record.
6. The MFHD window will pop up. Enter holdings information. Click Save MFHD.
7. Close the MFHD window.
8. Click Reload in the top left corner of the record. The Holdings Summary will reflect the changes to the MFHD statement.

Edit a MFHD record

1. Open a serial record, click Actions for this Record → MFHD Record → Edit MFHD Record and select the appropriate MFHD.
2. Edit the MFHD
3. Click Save MFHD

Delete a MFHD Record

1. Open a serial record, click Actions for this Record → MFHD Record → Delete MFHD Record and select the appropriate MFHD.

2. Click to confirm the deletion of the MFHD

Chapter 109. Group Serials Issues in the Template Toolkit OPAC

In previous versions of Evergreen, issues of serials displayed in a list ordered by publication date. The list could be lengthy if the library had extensive holdings of a serial. Using the Template Toolkit OPAC that is available in version 2.2, you can group issues of serials in the OPAC by chronology or enumeration. For example, you might group issues by date published or by volume. Users can expand these hyperlinked groups to view holdings of specific issues. The result is a clean, easy-to-navigate interface for viewing holdings of serials with a large quantity of issues.



This feature is only available in the Template Toolkit OPAC.

Administration

Enable the following organizational unit settings to use this feature:

1. Click Admin → Local Administration → Library Settings Editor.
2. Search or scroll to find Serials: Default display grouping for serials distributions presented in the OPAC.
3. Click Edit.
4. Enter enum to display issues by enumeration, or enter chron to display issues in chronological order. This value will become your default setting for display issues in the OPAC.
5. Click Update Setting.
6. Search or scroll to find OPAC: Use fully compressed serials holdings.
7. Select the value, True, to view a compressed holdings statement.
8. Click Update Setting.

Displaying Issues in the OPAC

Your library system has a subscription to the periodical, Bon Appetit. The serials librarian has determined that the issues at the Forest Falls branch should display in the OPAC by month and year. The issues at the McKinley branch should display by volume and number. The serials librarian will create two distributions for the serial that will include these groupings.

1. Retrieve the bibliographic record for the serial, and click Actions for this Record → Alternate Serial Control.

2. Create a New Subscription or click on the hyperlinked ID of an existing subscription.
3. Click New Distribution.
4. Create a label to identify the distribution.
5. Select the holding library from the drop down menu that will own physical copies of the issues.
6. Select a display grouping. Select chronology from the drop down menu.
7. Select a template from the drop down menu to receive copies.
8. Click Save.

Subscription Details

Summary | Distributions | Captions and Patterns | Issuances

Distributions

[Back](#) [Next](#)

✓	#	Label

Subscription	<input type="text" value="9"/>
Label	<input type="text" value="Issues to Forest Falls Branch"/>
Holding Lib	<input type="text" value="FOREST FALLS"/> ▼
Display Grouping	<input type="text" value="Chronology"/> ▼
Receive Unit Template	<input type="text" value="New Periodicals"/> ▼
Summary Method	<input type="text"/>
Unit Label Prefix	<input type="text"/>
Unit Label Suffix	<input type="text"/>
<input type="button" value="Cancel"/> <input type="button" value="Save"/>	

9. Click New Distribution and repeat the process to send issues to the McKinley Branch. Choose enumeration in the Display Grouping field to display issues by volume and number.
10. Complete the creation of your subscription.
11. Retrieve the record from the catalog.
12. Scroll down to and click the Issues Held link. The issues label for each branch appears.
13. Click the hyperlinked issues label.

The issues owned by the Forest Falls branch are grouped by chronology:

Record Summary (Add Volumes) (View MARC)

Title: Martha Stewart living Edition: TCN: 2688
 Author: Stewart, Martha. Pub Date: 1990 Database ID: 2688
 Bib Call #: 640/5 Record Owner:

Record 2 of 2 Start Previous Next End Search Results
 Go Back Reload Go Forward

Subject: Home economics > Periodicals.

AWARDS, REVIEWS, & SUGGESTED READS

ISSUES HELD

Sierra Consortium
 Sierra Public Library System
 McKinley Grove Public Library
 ▶ v.50 no.2(2012.Feb.)-v.51 no.3(2013.Mar.)
 Forest Falls Public Library
 ▼ v.50 no.2(2012.Feb.)-v.51 no.3(2013.Mar.)

ISSUE LABEL	CALL NUMBER	BARCODE	SHELVING LOCATION	AGE HOLD PROTECTION	CREATE DATE	HOLDABLE?
v.51 no.1(2013.Jan.)	PER	300023983289	Periodicals	None	05/11/2012	Place on copy / volume / issue
v.51 no.2(2013.Feb.)	PER	30030439498	Periodicals	None	05/11/2012	Place on copy / issue
v.51 no.3(2013.Mar.)	PER	3000238398389	Periodicals	None	05/11/2012	Place on copy / issue

▶ 2012

SHELF BROWSER

The issues owned by the McKinley branch are grouped by enumeration:

Record Summary (Add Volumes) (View MARC)

Title: Martha Stewart living Edition: TCN: 2688 Cre
 Author: Stewart, Martha. Pub Date: 1990 Database ID: 2688 Las
 Bib Call #: 640/5 Record Owner: Las

Record 2 of 2 Start Previous Next End Search Results
 Go Back Reload Go Forward

Subject: Home economics > Periodicals.

AWARDS, REVIEWS, & SUGGESTED READS

ISSUES HELD

Sierra Consortium
 Sierra Public Library System
 McKinley Grove Public Library
 ▼ v.50 no.2(2012.Feb.)-v.51 no.3(2013.Mar.)

ISSUE LABEL	CALL NUMBER	BARCODE	SHELVING LOCATION	AGE HOLD PROTECTION	CREATE DATE	HOLDABLE?
v.51 no.1(2013.Jan.)	PER	300023983290	Periodicals	None	05/11/2012	Place on copy / volume / issue
v.51 no.2(2013.Feb.)	PER	30030439499	Periodicals	None	05/11/2012	Place on copy / issue
v.51 no.3(2013.Mar.)	PER	30002383983905	Periodicals	None	05/11/2012	Place on copy / issue

▶ v.50

Forest Falls Public Library
 ▶ v.50 no.2(2012.Feb.)-v.51 no.3(2013.Mar.)

Part XI. Circulation

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Chapter 110. Introduction

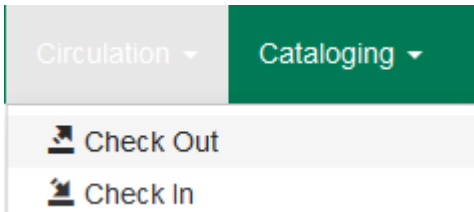
Use this section for understanding the circulation procedures in the Evergreen system.

Chapter 111. Circulating Items

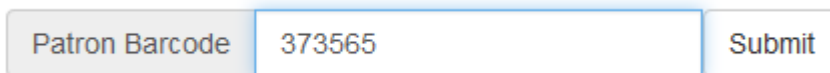
Check Out

Regular Items

1) To check out an item click Check Out Items from the Circulation and Patrons toolbar, or select Circulation → Check Out.

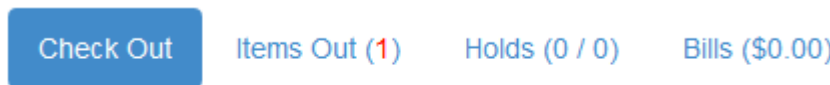


2) Scan or enter patron's barcode and click Submit if entering barcode manually. If scanning, number is submitted automatically.



The image shows a form with a label 'Patron Barcode' on the left, a text input field containing the number '373565', and a 'Submit' button on the right.

3) Scan or enter item barcode manually, clicking Submit if manual.



The image shows a blue 'Check Out' button on the left. To its right, there is summary information: 'Items Out (1)', 'Holds (0 / 0)', and 'Bills (\$0.00)'. A horizontal line is positioned below this information.



The image shows a form with a label 'Barcode' on the left, a text input field containing the number '13465789', and a 'Submit' button on the right.

4) Due date is now displayed.

#	Alert Msg	Balance Owed	Barcode	Bill #	Call Number	Due Date	Family Name
1			156212485858	1860	IW39VQGJ-QFS6	12/22/14 11:59 PM	Smith

5) When all items are scanned, click the Done button to generate slip receipt or to exit patron record if not printing slip receipts.

Pre-cataloged Items

1) Go to patron's Check Out screen by clicking Circulation → Check Out Items.

2) Scan the item barcode.

3) At prompt, enter the required information click Precat Checkout.

Barcode "33442234343222" was mis-scanned or is a non-cataloged item. ✕

Title

Author

ISBN

Circulation Modifier



On check-in, Evergreen will prompt staff to re-route the item to cataloging.

Due Dates

Circulation periods are pre-set. When items are checked out, due dates are automatically calculated and inserted into circulation records if the Specific Due Date checkbox is not selected on the Check Out screen. The Specific Due Date checkbox allows you to set a different due date to override the pre-set loan period.

Before you scan the item, select the Specific Due Date checkbox. Enter the date in yyyy-mm-dd format. This date applies to all items until you change the date, de-select the Specific Due Date checkbox, or quit the patron record.

Barcode Specific Due Date

Email Checkout Receipts

This feature allows patrons to receive checkout receipts through email at the circulation desk and in the Evergreen self-checkout interface. Patrons need to opt in to receive email receipts by default and must have an email address associated with their account. Opt in can be staff mediated at the time of account creation or in existing accounts. Patrons can also opt in directly in their OPAC account or through patron self-registration. This feature does not affect the behavior of checkouts from SIP2 devices.

Staff Client Check Out

When a patron has opted to receive email checkout receipts by default, an envelope icon representing email will appear next to the receipt options in the Check Out screen. A printer icon representing a physical receipt appears if the patron has not opted in to the default email receipts.

Smith, Sarah

Check Out Items Out (2) Holds (0 / 0) Bills (\$0.00) Messages Edit Other ▾ Patron Search

Profile Patrons

Home Library BR1

Net Access Filtered

Date of Birth 1/13/90

Last Activity 8/9/16

Last Updated 8/9/16

Create Date 8/4/16

Expire Date 8/4/19

Fines Owed \$0.00

Items Out 2

Overdue 0

Long Overdue 0

Barcode ▾ Submit

Specific Due Date 8/9/16

Rows 25 Page 1 ▾

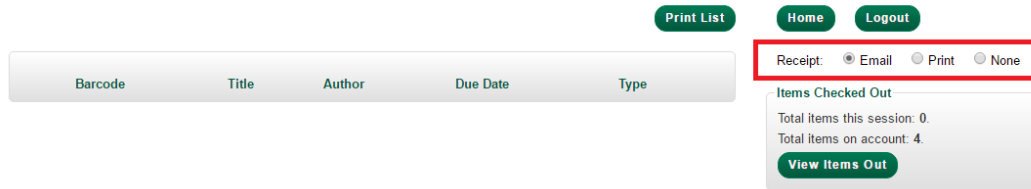
#	Alert Msg	Bill #	Due Date	Barcode	Location	Family Name	Title	Remaining RCall Number	Balance Owed
1		512	8/16/16 11...	FIC40000...	Science Fl...	Smith	Blueberry ...	2	FIC 216

Strict Barcode Quick Receipt ▾ Done ▾

Staff can click Quick Receipt and the default checkout receipt option will be triggered—an email will be sent or the receipt will print out. The Quick Receipt option allows staff to stay in the patron account after completing the transaction. Alternatively, staff can click Done to trigger the default checkout receipt and close out the patron account. By clicking on the arrow next to the Quick Receipt or Done buttons, staff can select which receipt option to use, regardless of the selected default. The email receipt option will be disabled if the patron account does not have an email address.

Self Checkout

In the Self Checkout interface, patrons will have the option to select a print or email checkout receipt, or no receipt. The radio button for the patron's default receipt option will be selected automatically in the interface. Patrons can select a different receipt option if desired. The email receipt radio button will be disabled if there is no email address associated with the patron's account.



Opt In

Staff Mediated Opt In At Registration

Patrons can be opted in to receive email checkout receipts by default by library staff upon the creation of their library account. Within the patron registration form, there is a new option below the Email Address field to select Email checkout receipts by default?. Select this option if the patron wants email checkout receipts to be their default. Save any changes.

The image shows a 'Register Patron' form. It includes fields for 'Primary Identification Type' (set to 'Drivers License'), 'Primary Identification' (645413521), 'Secondary Identification', 'Email Address' (ssmith@example.com), 'Email checkout receipts by default?' (checked), 'Daytime Phone' (555-555-5555), 'Evening Phone', 'Other Phone', 'Home Library' (BR1), 'Main (Profile) Permission Group' (Patrons), 'Privilege Expiration Date' (8/9/19), and 'Internet Access Level' (Filtered). A red box highlights the 'Email Address' and 'Email checkout receipts by default?' fields. There are also buttons for 'Secondary Groups' and 'Update Expire Date'.

Staff Mediated Opt In After Registration

Staff can also select email checkout receipts as the default option in a patron account after initial registration. Within the patron account go to Edit and select Email checkout receipts by default?. Make sure the patron also has an email address associated with their account. Save any changes.

Smith, Sarah

Check Out Items Out (1) Holds (0 / 0) Bills (\$0.00) Messages [Edit](#) Other ▾

Show: Required Fields Suggest 1/13/90

Primary Identification Type Other ▾

Primary Identification

Secondary Identification

Email Address ssmith@example.com [Invalidate](#)

Email checkout receipts by default?

Daytime Phone

Evening Phone

Other Phone

Home Library SL1 ▾

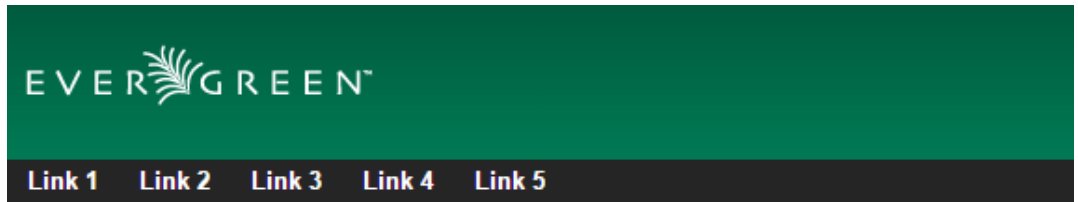
Holds	0 / 0
Card	99999303411
Username	99999303411
Day Phone	
Evening Phone	
Other Phone	
ID1	Other
ID2	
Email	ssmith@example.com

MAILING [\(print\)](#)

845 Relative Dress Mall
Okeechobee, FL 34972

Patron Opt In – Self-Registration Form

If your library offers patrons the ability to request a library card through the patron self-registration form, they can select email checkout receipts by default in the initial self-registration form:



Request a Library Card

Home Library Example Consortium ▾

First Name *

Middle Name

Last Name *

Street Address *

Street Address (2)

City *

Zip Code *

Requested Username

Email checkout receipts by default?

[Go Back](#) [Submit Registration](#)



Patron Opt In - OPAC Account

Patrons can also opt in to receive email checkout receipts by default directly in their OPAC account. After logging in, patrons can go to Account Preferences→Notification Preferences and enable Email checkout receipts by default? and click Save.

The screenshot shows the OPAC interface. At the top, there are search options: 'Search the Catalog', 'Advanced Search', and 'Browse the Catalog'. Below this is a search bar with a 'Search' button and an 'All Libraries' button. The main navigation bar includes 'Account Summary', 'Messages', 'Items Checked Out', 'Holds', 'Account Preferences', and 'My Lists'. Under 'Account Preferences', there are sub-tabs: 'Personal Information', 'Notification Preferences', 'Search and History Preferences', and 'My Lists Preferences'. The 'Notification Preferences' section is active, showing 'Account Information and Preferences'. A table lists several notification options: 'Notify by Email by default when a hold is ready for pickup?' (unchecked), 'Notify by Phone by default when a hold is ready for pickup?' (unchecked), 'Default Phone Number' (input field), and 'Email checkout receipts by default?' (checked). A red box highlights the 'Email checkout receipts by default?' row. A 'Save' button is at the bottom left.

Email Checkout Receipt Configuration

Email checkout receipts will be sent out through a Notifications/Action Trigger called Email Checkout Receipt. The email template and action trigger can be customized by going to Administration→Local Administration→Notifications/Action Trigger→Email Checkout Receipt.

Check In

Regular check in

1) To check in an item click Check In Items from the Circulation and Patrons toolbar, or select Circulation → Check In.

The screenshot shows a toolbar with two main sections: 'Circulation' and 'Cataloging'. Under 'Circulation', there are two options: 'Check Out' and 'Check In'. The 'Check In' option is highlighted with a mouse cursor.

2) Scan item barcode or enter manually and click Submit.

The screenshot shows a form with a 'Barcode' label, an input field containing the number '31234-33295', and a 'Submit' button.

3) If there is an overdue fine associated with the checkin, an alert will appear at the top of the screen with a fine tally for the current checkin session. To immediately handle fine payment, click the alert to jump to the patron's bill record.

Barcode Submit

Fine Tally: \$5.00 Transaction for 498918229943 billed: \$5.00

Items Checked In

#	<input type="checkbox"/>	Alert Msg	Balance Owed	Barcode	Bill #	Checkin Date	Family Name
1	<input type="checkbox"/>		\$5.00	498918229943	1281	12/8/14 12:00 AM	Smith

Backdated check in

This is useful for clearing a book drop.

1) To change effective check-in date, select Circulation → Check In Items. In Effective Date field enter the date in yyyy-mm-dd format.

Barcode Submit Effective Date

2) The new effective date is now displayed in the red bar above the Barcode field.

Backdated Check In 11/30/14
Barcode Submit Effective Date

3) Move the cursor to the Barcode field. Scan the items. When finishing backdated check-in, change the Effective Date back to today's date.

Backdate Post-Checkin

After an item has been checked in, you may use the Backdate Post-Checkin function to backdate the check-in date.

1) Select the item on the Check In screen, click Actions → Backdate Post-Checkin.

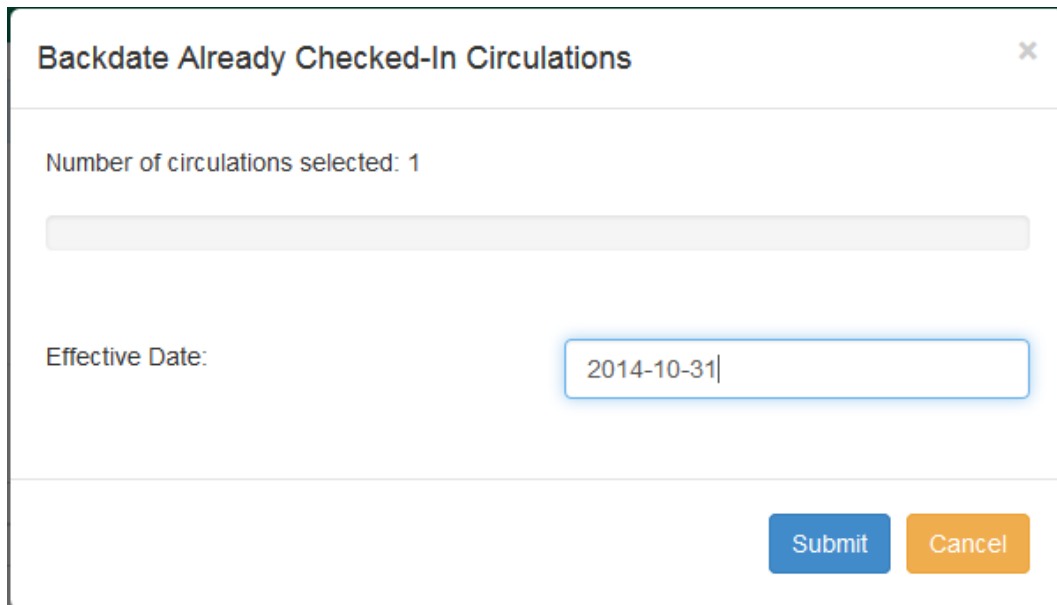
Barcode Submit 31234-32083 was already checked in. Effective Date

Items Checked In

#	<input type="checkbox"/>	Alert Msg	Balance Owed	Barcode	Bill #	Checkin Date	Family Name	Actions
1	<input type="checkbox"/>			31234-32083				<ul style="list-style-type: none">Retrieve Last Patron Who Circulated ItemBackdate Post-CheckinMark Items DamagedAbort Transits

Print Receipt

2) In Effective Date field enter the date in yyyy-mm-dd format. The check-in date will be adjusted according to the new effective check-in date.



The screenshot shows a dialog box titled "Backdate Already Checked-In Circulations" with a close button (X) in the top right corner. Below the title bar, it displays "Number of circulations selected: 1" above a horizontal progress bar. Underneath is the label "Effective Date:" followed by a text input field containing "2014-10-31". At the bottom right, there are two buttons: a blue "Submit" button and an orange "Cancel" button.



Checkin Modifiers

At the right bottom corner there is a Checkin Modifiers pop-up list. The options are:

-Ignore Pre-cat Items: no prompt when checking in a pre-cat item. Item will be routed to Cataloguing with Cataloguing status.

-Supress Holds and Transit: item will not be used to fill holds or sent in transit. Item has Reshelving status.

-Amnesty Mode/Forgive Fines: overdue fines will be voided if already created or not be inserted if not yet created (e.g. hourly loans).

-Auto-Print Hold and Transit Slips: slips will be automatically printed without prompt for confirmation.

-Clear Holds Shelf. Checking in hold-shelf-expired items will clear the items from the hold shelf (holds to be cancelled).

-Retarget Local Holds. When checking in in process items that are owned by the library, attempt to find a local hold to retarget. This is intended to help with proper targeting of newly-catalogued items.

-Retarget All Statuses. Similar to Retarget Local Holds, this modifier will attempt to find a local hold to retarget, regardless of the status of the item being checked in. This modifier must be used in conjunction with the Retarget Local Holds modifier.

-Capture Local Holds as Transits. With this checkin modifier, any local holds will be given an in transit status instead of on holds shelf. The intent is to stop the system from sending holds notifications before the item is ready to be placed on the holds shelf and item will have a status of in-transit until checked in again. If you wish to simply delay notification and allow time for staff to process item to holds shelf, you may wish to use the Hold Shelf Status Delay setting in Library Settings Editor instead. See Local Administration section for more information.

These options may be selected simultaneously. The selected option is displayed in the header area.

Barcode: 156212485858 Submit Effective Date: 2014-12-19

Items Checked In Actions Rows 25 Page 1

#	Alert Msg	Balance Owed	Barcode	Bill #	Checkin Date	Family Name	Finish	Location	Route To	Start	Title
No Items To Display											

Print Receipt Trim List (20 Rows) Strict Barcode Checkin Modifiers

- Ignore Pre-cataloged Items
- Suppress Holds and Transits
- Amnesty Mode
- Auto-Print Hold and Transit Slips
- Clear Holds Shelf
- Retarget Local Holds
- Retarget All Statuses
- Capture Local Holds As Transits

Renewal and Editing the Item's Due Date

Checked-out items can be renewed if your library's policy allows it. The new due date is calculated from the renewal date. Existing loans can also be extended to a specific date by editing the due date or renewing with a specific due date.

Renewing via a Patron's Account

1) Retrieve the patron record and go to the Items Out screen.

Smith, Alexandra Check Out **Items Out (1)** Holds (0 / 0) Bills (\$4.20) Messages Edit Other Patron Search

Items Checked Out (1) Other/Special Circulations (0)

Items Out (1) Actions Rows 25 Page 1

#	Circ ID	Barcode	Due Date	Workstation	Checkin Workstat	Checkout / Renew	Renewals Remain	Fines Stopped	Title
1	1880	156212485858	1/2/15 11:59 PM	APEX-test	APEX	2			lost city

2) Select the item you want to renew. Click on Actions → Renew. If you want to renew all items in the account, click Renew All instead.

Items Checked Out (1) [Other/Special Circulations \(0\)](#)

#	<input type="checkbox"/>	Circ ID	Barcode	Due Date	Workstation	Checkin Worksta	Checkout /	Stopped	Title
1	<input checked="" type="checkbox"/>	1892	156212485858	1/5/15 11:59 PM	APEX-test	APEX			lost city

Navigation: Actions ▾ Rows 25 ▾ Page 1 ▾

- Print Item Receipt
- Edit Due Date
- Mark Lost (By Patron)
- Mark Claims Returned
- Mark Claims Never Checked Out
- Renew
- Renew All
- Renew With Specific Due Date
- Check In
- Add Billing

3) If you want to specify the due date, click Renew with Specific Due Date. You will be prompted to select a due date. Once done, click Apply.

Renewing by Item Barcode

- 1) To renew items by barcode, select Circulation → Renew Items.
- 2) Scan or manually enter the item barcode.

Renew Items

Barcode

Specific Due Date

3) If you want to specify the due date, click Specific Due Date and enter a new due date in yyyy-mm-dd format.

Renew Items

Specific Due Date

Editing Due Date

- 1) Retrieve the patron record and go to the Items Out screen.
- 2) Select the item you want to renew. Click on Actions → Edit Due Date.

Items Checked Out (2) [Other/Special Circulations \(0\)](#)

#	<input type="checkbox"/>	Circ ID	Barcode	Due Date	Workstation	Checkin Worksta	Checkout /	Stopped	Title
1	<input checked="" type="checkbox"/>	1881	156212485858	1/2/15 11:59 PM	APEX-test	APEX			lost city
2	<input type="checkbox"/>	1882	667281988628	1/2/15 11:59 PM	APEX-test	APEX			trunk music

Navigation: Actions ▾ Rows 25 ▾ Page 1 ▾

- Print Item Receipt
- Edit Due Date
- Mark Lost (By Patron)
- Mark Claims Returned
- Mark Claims Never Checked Out
- Renew
- Renew All
- Renew With Specific Due Date
- Check In
- Add Billing

3) Enter a new due date in yyyy-mm-dd format in the pop-up window, then click OK.



Editing a due date is not included in the renewal count.

Marking Items Lost and Claimed Returned

Lost Items

1) To mark items Lost, retrieve patron record and click Items Out.

2) Select the item. Click on Actions → Mark Lost (by Patron).

Items Checked Out (2) Other/Special Circulations (0)

#	<input type="checkbox"/>	Circ ID	Barcode	Due Date	Workstation	Checkin Workstati	Checkout	Print Item Receipt	Stopped	Title
1	<input type="checkbox"/>	1890	156212485858	1/2/15 11:59 PM	APEX-test		APEX	Edit Due Date		lost city
2	<input checked="" type="checkbox"/>	1891	667281988628	1/2/15 11:59 PM	APEX-test		APEX	Mark Lost (By Patron)		trunk music

- Mark Claims Returned
- Mark Claims Never Checked Out
- Renew
- Renew All
- Renew With Specific Due Date
- Check In
- Add Billing

3) The lost item now displays as lost in the Items Checked Out section of the patron record.

Items Checked Out (1) Other/Special Circulations (1)

#	<input type="checkbox"/>	Circ ID	Barcode	Due Date	Workstation	Checkin Workstati	Checkout / Renew	Renewals Remain	Fines Stopped	Title
1	<input type="checkbox"/>	1891	667281988628	1/2/15 11:59 PM	APEX-test		APEX	2	LOST	trunk music

4) The lost item also adds to the count of Lost items in the patron summary on the left (or top) of the screen.

Smith, Alexandra



Patron exceeds fine threshold	12/19/14
Profile	Patron
Home Library	APEX
Net Access	Filtered
Last Activity	
Last Updated	12/19/14
Create Date	10/19/10
Expire Date	7/29/16
Fines Owed	\$35.00
Items Out	0
Overdue	0
Long Overdue	0
Claimed Returned	1
Lost	1
Holds	0 / 0



Lost Item Billing

- Marking an item Lost will automatically bill the patron the replacement cost of the item as recorded in the price field in the item record, and a processing fee as determined by your local policy. If the lost item has overdue charges, the overdue charges may be voided or retained based on local policy.
- A lost-then-returned item will disappear from the Items Out screen only when all bills linked to this particular circulation have been resolved. Bills may include replacement charges, processing fees, and manual charges added to the existing bills.
- The replacement fee and processing fee for lost-then-returned items may be voided if set by local policy. Overdue fines may be reinstated on lost-then-returned items if set by local policy.

Refunds for Lost Items

If an item is returned after a lost bill has been paid and the library's policy is to void the replacement fee for lost-then-returned items, there will be a negative balance in the bill. A refund needs to be made to close the bill and the circulation record. Once the outstanding amount has been refunded, the bill and circulation record will be closed and the item will disappear from the Items Out screen.

If you need to balance a bill with a negative amount, you need to add two dummy bills to the existing bills. The first one can be of any amount (e.g. \$0.01), while the second should be of the

absolute value of the negative amount. Then you need to void the first dummy bill. The reason for using a dummy bill is that Evergreen will check and close the circulation record only when payment is applied or bills are voided.

Claimed Returned Items

- 1) To mark an item Claimed Returned, retrieve the patron record and go to the Items Out screen.
- 2) Select the item, then select Actions → Mark Claimed Returned from the dropdown menu.

Items Checked Out (2) Other/Special Circulations (0)

#	<input type="checkbox"/>	Circ ID	Barcode	Due Date	Workstation	Checkin Workstat	Checkout	Stopped	Title
1	<input checked="" type="checkbox"/>	1890	156212485858	1/2/15 11:59 PM	APEX-test		APEX		lost city
2	<input type="checkbox"/>	1891	667281988628	1/2/15 11:59 PM	APEX-test		APEX		trunk music

Actions

- Print Item Receipt
- Edit Due Date
- Mark Lost (By Patron)
- Mark Claims Returned
- Mark Claims Never Checked Out
- Renew
- Renew All
- Renew With Specific Due Date
- Check in
- Add Billing

- 3) Enter date in yyyy-mm-dd format and click Submit.

Mark Item(s) Claims Returned ×

Enter claims returned date for items: 601620844833

2014-12-31

Submit
Cancel

- 4) The Claimed Returned item now displays in the Other/Special Circulations section of the patron record.

Items Checked Out (1) Other/Special Circulations (1)

#	<input type="checkbox"/>	Circ ID	Barcode	Due Date	Workstation	Checkin Workstat	Checkout / Renew	Renewals Remain	Fines Stopped	Title
1	<input type="checkbox"/>	1890	156212485858	1/2/15 11:59 PM	APEX-test		APEX	2	CLAIMSRETURNED	lost city

- 5) The Claimed Returned item adds to the count of items that are Claimed Returned in the patron summary on the left (or top) of the screen. It also adds to the total Other/Special Circulations that is displayed when editing the patron's record.

Smith, Alexandra



Patron exceeds fine threshold	12/19/14
Profile	Patron
Home Library	APEX
Net Access	Filtered
Last Activity	
Last Updated	12/19/14
Create Date	10/19/10
Expire Date	7/29/16
Fines Owed	\$35.00
Items Out	0
Overdue	0
Long Overdue	0
Claimed Returned	1
Lost	1
Holds	0 / 0

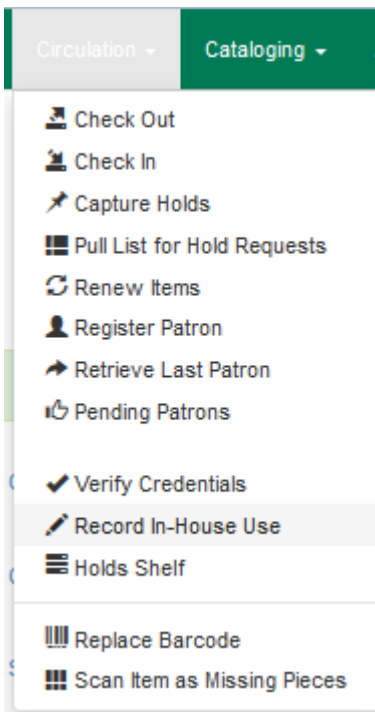


More on Claimed Returned Items

- The date entered for a Claimed Returned item establishes the fine. If the date given has passed, bills will be adjusted accordingly.
- When a Claimed Returned item is returned, if there is an outstanding bill associated with it, the item will not disappear from the Items Out screen. It will disappear when the outstanding bills are resolved.
- When an item is marked Claimed Returned, the value in Claims-returned Count field in the patron record is automatically increased. Staff can manually adjust this count by editing the patron record.

In-house Use (F6)

1) To record in-house use, select Circulation → Record-In House Use, click Check Out → Record In-House Use on the circulation toolbar , or press F6.



2) To record in-house use for cataloged items, enter number of uses, scan barcode or type barcode and click Submit.

of Uses: 1 Barcode: 598158008026

In-House Use Rows 25 Page 1

#	# of Uses	Barcode	Call Number	Location	Title
No Items To Display					



There are two independent library settings that will allow copy alerts to display when scanned in In-house Use: Display copy alert for in-house-use set to true will cause an alert message to appear, if it has one, when recording in-house-use for the copy. Display copy location check in alert for in-house-use set to true will cause an alert message indicating that the item needs to be routed to its location if the location has check in alert set to true.

3) To record in-house use for non-cataloged items, enter number of uses, choose non-cataloged type from drop-down menu, and click Submit.

of Uses: 1 Barcode Submit

In-House Use

#	<input type="checkbox"/>	# of Uses	Barcode	Ca
No Items To Display				

Barcode
 Board Book
 Magazine
 Map
 Newspaper
 Paperback Book
 Paperback Romance
 Professional Collection



The statistics of in-house use are separated from circulation statistics. The in-house use count of cataloged items is not included in the items' total use count.

Item Status

The Item Status screen is very useful. Many actions can be taken by either circulation staff or catalogers on this screen. Here we will cover some circulation-related functions, namely checking item status, viewing past circulations, inserting item alert messages, marking items missing or damaged, etc.

Checking item status

1) To check the status of an item, select Search → Search for copies by Barcode.

Search → Circulation → Catalog

- Search for Patrons
- Search for Copies by Barcode
- Search the Catalog

2) Scan the barcode or type it and click Submit. The current status of the item is displayed with selected other fields. You can use the column picker to select more fields to view.

Scan Item

598158008026 OR No file selected.

Item Status Rows 25 Page 1

#	Barcode	Call Number	Location	Title
No Items To Display				

3) Click the Detail View button and the item summary and circulation history will be displayed.

Scan Item

OR No file selected.

Record Summary

Title:	choke	Edition:		TCN:	2488	Created By:	admin
Author:	woods, stuart	Pub Date:	1995	Databse ID:	2488	Last Edited By:	admin
Bib Call #:		Record Owner:		Last Edited On:			

Quick Summary [Recent Circ History](#) [Circ History List](#) [Holds / Trans#](#) [Cataloging Info](#) [Triggered Events](#)

Barcode	598158008026	Circ Library	APEX	Call # Prefix		Status	Reshelving
Price		Owning Library	APEX	Call #	52W2VVA2-DGBO	Due Date	12/31/14 11:59 PM
ISBN	{0060176679}	Copy Location	Stacks	Call # Suffix		Checkout Date	12/8/14 9:43 AM
Date Created	10/19/10 6:07 PM	Loan Duration	14 days	Renewal Type		Checkout Workstation	APEX-test
Date Active	10/19/10 6:07 PM	Fine Level	14_days_2_renew	Total Circs	3	Duration Rule	14_days_2_renew
Status Changed	12/8/14 10:42 AM	Reference	false	Total Circs - Current Year	3	Recurring Fine Rule	10_cent_per_day
Copy ID	24731	OPAC Visible	true	Total Circs - Prev Year	0	Max Fine Rule	overdue_max
TCN	2488	Holdable	true	Renewal Workstation		Checkin Time	10/30/14 11:59 PM
Floating	false	Circulate	true	Remaining Renewals	2	Checkin Scan Time	12/8/14 10:42 AM
		Circ Modifier				Checkin Workstation	APEX-test

Alert Message

4) Click List View to go back.

Scan Item

OR No file selected.

Item Status Rows 25 Page 1

#	Barcode	Call Number	Location	Title
1	598158008026	52W2VVA2-DGBO	Stacks	choke



If the item's status is "Available", the displayed due date refers to the previous circulation's due date.



Upload From File allows you to load multiple items saved in a file on your local computer. The file contains a list of the barcodes in text format. To ensure smooth uploading and further processing on the items, it is recommended that the list contains no more than 100 items.

Viewing past circulations

- 1) To view past circulations, retrieve the item on the Item Status screen as described above.
- 2) Select Detail view.

Scan Item

Submit OR No file selected.

Item Status

⏪ ⏩ Rows 25 Page 1

#	Barcode	Call Number	Location	Title
1	<input checked="" type="checkbox"/> 31234-33113	Accession #701441	Stacks	shostakovich, d

- 3) Choose Recent Circ History. The item's recent circulation history is displayed.

Scan Item

Submit OR No file selected.

Record Summary

Title:	shostakovich, d	Edition:	TCN:	701441	Created By:	admin
Author:	Pub Date:	2009	Database ID:	701441	Last Edited By:	admin
Bib Call #:	Record Owner:	Last Edited On:				

[Quick Summary](#) [Recent Circ History](#) [Circ History List](#) [Holds / Transit](#) [Cataloging Info](#) [Triggered Events](#)

No Previous Circ Group

Most Recent Circ Group

Patron	Smith, Angel Heather : 322684
Total Circs	
Checkout Date	12/23/14 11:05 AM
Checkout Workstation	
Last Renewed On	
Renewal Workstation	
Stop Fines Reason	CHECKIN
Stop Fines Time	12/23/14 12:00 AM
Checkin Time	12/23/14 12:00 AM
Checkin Scan Time	12/23/14 11:06 AM
Checkin Workstation	

- 4) To retrieve the patron(s) of the last circulations, click on the name of the patron. The patron record will be displayed.



The number of items that displays in the circulation history can be set in Local Administration → Library Settings Editor.



You can also retrieve the past circulations on the patron's Items Out screen and from the Check In screen.

Marking items damaged or missing and other functions

- 1) To mark items damaged or missing, retrieve the item on the Item Status screen.
- 2) Select the item. Click on Actions for Selected Items → Mark Item Damaged or Mark Item Missing.



Depending on the library's policy, when marking an item damaged, bills (cost and/or processing fee) may be inserted into the last borrower's account.

- 3) Following the above procedure, you can check in and renew items by using the Check in Items and Renew Items on the dropdown menu.

Item alerts

The Edit Item Attributes function on the Actions for Selected Items dropdown list allows you to edit item records. Here, we will show you how to insert item alert messages by this function. See cataloging instructions for more information on item editing. 1) Retrieve record on Item Status screen.

- 2) Once item is displayed, highlight it and select Actions for Selected Items → Edit Item Attributes.
- 3) The item record is displayed in the Copy Editor.
- 4) Click Alert Message in the Miscellaneous column. The background color of the box changes. Type in the message then click Apply.
- 5) Click Modify Copies, then confirm the action.

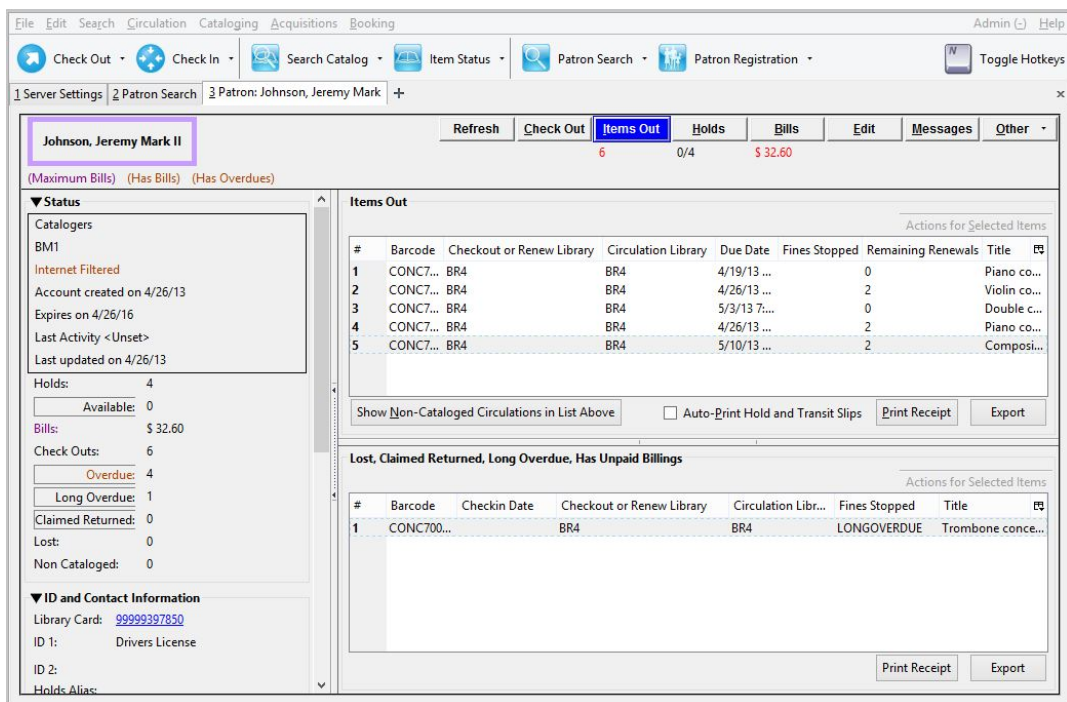
Mark an Item Long Overdue

Marking an item Long Overdue

Once an item has been overdue for a configurable amount of time, Evergreen will mark the item long overdue in the borrowing patron's account. This will be done automatically through a Notification/Action Trigger. When the item is marked long overdue, several actions will take place:

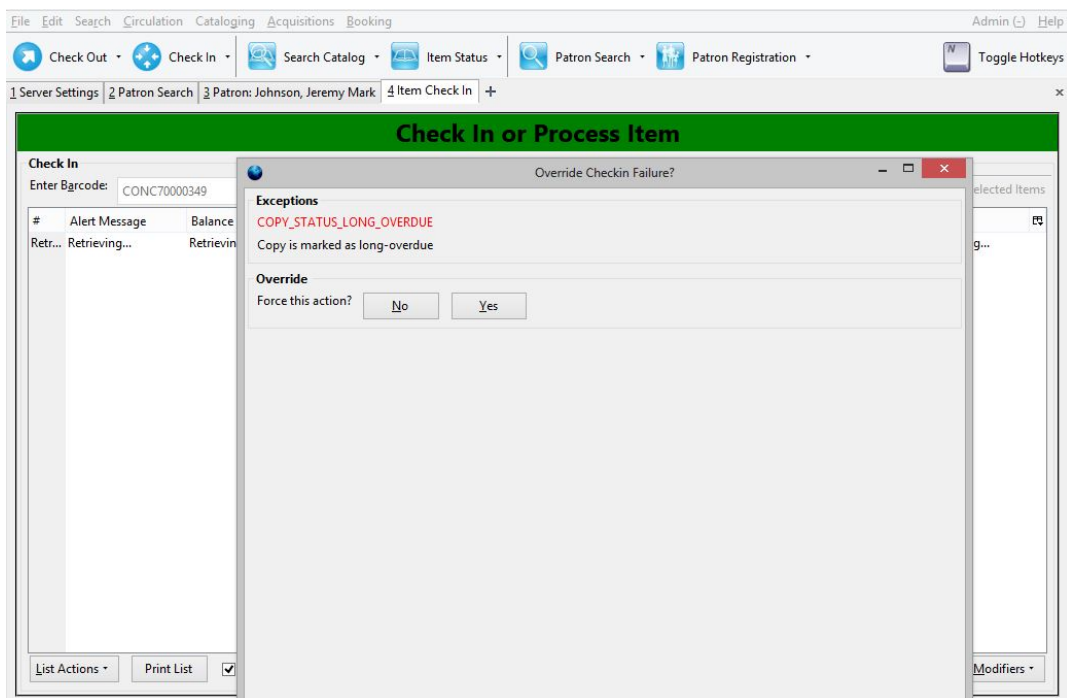
1. The item will go into the status of "Long Overdue"
2. The item will be moved to the "Lost, Claimed Returned, Long Overdue, Has Unpaid Billings" section of the Items Out screen in the patron's account
3. The accrual of overdue fines will be stopped

Optionally the patron can be billed for the item price, a long overdue processing fee, and any overdue fines can be voided from the account. Patrons can also be sent a notification that the item was marked long overdue.



Checking in a Long Overdue item

If an item that has been marked long overdue is checked in, an alert will appear on the screen informing the staff member that the item was long overdue. Once checked in, the item will go into the status of "In process". Optionally, the item price and long overdue processing fee can be voided and overdue fines can be reinstated on the patron's account. If the item is checked in at a library other than its home library, a library setting controls whether the item can immediately fill a hold or circulate, or if it needs to be sent to its home library for processing.



Notification/Action Triggers

Evergreen has two sample Notification/Action Triggers that are related to marking items long overdue. The sample triggers are configured for 6 months. These triggers can be configured for any amount of time according to library policy and will need to be activated for use.

- Sample Triggers
 - 6 Month Auto Mark Long-Overdue—will mark an item long overdue after the configured period of time
 - 6 Month Long Overdue Notice—will send patron notification that an item has been marked long overdue on their account

Library Settings

The following Library Settings enable you to set preferences related to long overdue items:

- Circulation: Long-Overdue Check-In Interval Uses Last Activity Date —Use the long-overdue last-activity date instead of the due_date to determine whether the item has been checked out too long to perform long-overdue check-in processing. If set, the system will first check the last payment time, followed by the last billing time, followed by the due date. See also circ.max_accept_return_of_longoverdue
- Circulation: Long-Overdue Items Usable on Checkin —Long-overdue items are usable on checkin instead of going "home" first
- Circulation: Long-Overdue Max Return Interval —Long-overdue check-in processing (voiding fees, re-instating overdues, etc.) will not take place for items that have been overdue for (or have last activity older than) this amount of time
- Circulation: Restore Overdues on Long-Overdue Item Return
- Circulation: Void Long-Overdue item Billing When Returned
- Circulation: Void Processing Fee on Long-Overdue Item Return
- Finances: Leave transaction open when long overdue balance equals zero —Leave transaction open when long-overdue balance equals zero. This leaves the lost copy on the patron record when it is paid
- Finances: Long-Overdue Materials Processing Fee
- Finances: Void Overdue Fines When Items are Marked Long-Overdue

Permissions to use this Feature

The following permissions are related to this feature:

- COPY_STATUS_LONG_OVERDUE.override
 - Allows the user to check-in long-overdue items thus removing the long-overdue status on the item

Chapter 112. Holds Management

Placing Holds

Holds can be placed by staff in the Staff Client and by patrons in the OPAC. In this chapter we demonstrate placing holds in the Staff Client.

Holds Levels

Evergreen has different levels of holds. Library staff can place holds at all levels, while patrons can only place title-level holds, and parts-level holds. The chart below summarizes the levels of holds.

Hold level	Abbreviation	When to use	How to use	Who can use	Hold tied to
Title	T	Patron wants first available copy of a title	Staff or patron click on Place Hold next to title.	Patron or staff	Holdings attached to a single MARC (title) record
Parts	P	Patron wants a particular part of title (e.g. volume or disk number)	Staff or patron selects part on the create/edit hold screen when setting holds notification options.	Patron or staff	Holdings with identical parts attached to a single MARC (title) record.
Volume	V	Patron or staff want any title associated with a particular call number	In the staff client, click on Volume Hold under Holdable?	Staff only	Holdings attached to a single call number (volume)
Copy	C	Patron or staff want a specific copy of an item	In the staff client, click on Copy Hold under Holdable?	Staff only	A specific copy (barcode)

Title Level Hold



A default hold expiration date will be displayed if the library has set up a default holds expiration period in their library settings. Uncaptured holds will not be targeted after the expiration date.

If you select the Suspend this Hold checkbox, the hold will be suspended and not be captured until you activate it.

1. To place a title level hold, retrieve the title record on the catalog and click the Place Hold link beside the title on the search results list, or click the Place Hold link on the title summary screen.

2. [Know your Shakespeare.](#)
Metcalf, John Calvin, 1865-1949. ✔ Place Hold  Add to my list
 Book ([1949])
Call number: 822.33 B, M56k
1 of 1 copy available at Abbey's Library.

3. [Understanding Shakespeare.](#)
Ludowyk, E. F. C. (Evelyn Frederick Charles), 1906-1985. ✔ Place Hold  Add to my list
 Book (1962.)
Call number: PR2894 .L8
1 of 1 copy available at Abbey's Library.

2. Scan or type patron's barcode into the Place hold for patron by barcode box, or choose Place this hold for me.
3. If this title contains multiple parts, you can specify which part to request. If you do not select a part, the hold will target any of the other copies on this record, that is, those with no parts attached. Those copies are usually the complete set, containing all the parts.
4. Edit patron hold notification and expiration date fields as required. Be sure to choose a valid Pickup location.
5. Click Submit.

Place Hold

Place hold for patron by barcode:
 Place this hold for me (Administrator System Account)

Life in Shakespeare's England : a book of Elizabethan prose / compiled by John Dover Wilson.
 Select a Part (optional): - All Parts -
[Advanced Hold Options](#)

Pickup location: Abbey's Library

Notify when hold is ready for pickup?

Yes, by Email
 Email Address:

Yes, by Phone
 Phone Number:

Yes, by Text Messaging
 Mobile carrier: Verizon Wireless (USA) Note: carrier charges may apply
 Mobile number: Hint: use the full 10 digits of your phone #, no spaces, no dashes

6. A confirmation screen appears with the message "Hold was successfully placed".

Place Hold

- Life in Shakespeare's England : a book of Elizabethan prose
Hold was successfully placed

[Continue](#)

[Place another hold for this title](#)

Advanced Hold Options

Clicking the Advanced Hold Options link will take you into the metarecord level hold feature, where you can select multiple formats and/or languages, if available.

Selecting multiple formats will not place all of these formats on hold. For example, selecting CD Audiobook and Book implies that either the CD format or the book format is the acceptable format to fill the hold. If no format is selected, then any of the available formats may be used to fill the hold. The same holds true for selecting multiple languages.

Place Hold

- Place hold for patron by barcode: 3f8cf5f4acf14446ea2f41 System Account, Administrator
 Place this hold for me (Administrator System Account)

Know your Shakespeare.

[Basic Hold Options](#)

Select your desired format(s).

If none are selected, any available formats may be used.

Book

Select your desired language(s).

If none are selected, any available languages may be used.

English

Pickup location:

Notify when hold is ready for pickup?

Yes, by Email

Email Address:

Yes, by Phone

Phone Number:

Yes, by Text Messaging

Mobile carrier: Note: carrier charges may apply

Mobile number: Hint: use the full 10 digits of your phone #, no spaces, no dashes

See also the section on placing [Metarecord Holds](#).

Parts Level Hold

1. To place a parts level hold, retrieve a record with parts-level items attached to the title, such as a multi-disc DVD, an annual travel guide, or a multi-volume book set.

2. Place the hold as you would for a title-level hold, including patron barcode, notification details, and a valid pickup location.
3. Select the applicable part from the Select a Part dropdown menu.
4. Click Submit.

Place Hold

Place hold for patron by barcode:

Place this hold for me (Administrator System Account)

Life in Shakespeare's England : a book of Elizabethan prose / compiled by John Dover Wilson.
Select a Part (optional):

[Advanced Hold Options](#)

Pickup location:

Notify when hold is ready for pickup?

Yes, by Email
Email Address:

Yes, by Phone
Phone Number:

Yes, by Text Messaging
Mobile carrier: Note: carrier charges may apply
Mobile number: Hint: use the full 10 digits of your phone #, no spaces, no dashes



Requested formats are listed in the Holdable Part column in hold records. Use the Column Picker to display it when the hold record is displayed.

Placing Holds in Patron Records

1. Holds can be placed from patron records too. In the patron record on the Holds screen, click the Place Hold button on the left top corner.
2. The catalog is displayed in the Holds screen to search for the title on which you want to place a hold.
3. Search for the title and click the Place Hold link.
4. The patron's account information is retrieved automatically. Set up the notification and expiration date fields. Click Place Hold and confirm your action in the pop-up window.
5. You may continue to search for more titles. Once you are done, click the Holds button on the top to go back to the Holds screen. Click the Refresh button to display your newly placed holds.


Placing Multiple Holds on Same Title

After a successful hold placement, staff have the option to place another hold on the same title by clicking the link Place another hold for this title. This returns to the hold screen, where a different patron's information can be entered.

Place Hold

- L'Angleterre, le Canada et la grande guerre / par le lieutenant-colonel L.-G. Desjardins
Hold was successfully placed
[Continue](#) [Place another hold for this title](#)

[Bottom Link 2](#) | [Bottom Link 3](#) | [Bottom Link 4](#) | [Bottom Link 5](#)

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This feature can be useful for book groups or new items where a list of waiting patrons needs to be transferred into the system.

Managing Holds

Holds can be cancelled at any time by staff or patrons. Before holds are captured, staff or patrons can suspend them or set them as inactive for a period of time without losing the hold queue position, activate suspended holds, change notification method, phone number, pick-up location (for multi-branch libraries only), expiration date, activation date for inactive holds, etc. Once a hold is captured, staff can change the pickup location and extend the hold shelf time if required.

Staff can edit holds in either patron's records or the title records. Patrons can edit their holds in their account on the OPAC.



If you use the column picker to change the holds display from one area of the staff client (e.g. the patron record), it will change the display for all parts of the staff client that deal with holds, including the title record holds display, the holds shelf display, and the pull list display.

Actions for Selected Holds

1. Retrieve the patron record and go to the Holds screen.
2. Highlight the hold record, then select Actions for Selected Holds.

Check Out Items Out (4) Holds (3 / 0) Bills (\$0.00) Messages Edit Other Patron Search

Open Hold Requests Recently Canceled Holds

Place Hold Detail View

#	Hold ID	Current Copy	Request Date	Capture Date	Available Date	Hold Type	Pickup Library	Title	Potential Copies	Status
1	653	825824131210	12/5/14			T	APEX	Rainbow fish and the	21	Waiting for C...
2	655	170738988295	12/5/14			T	APEX	Curious George and	9	Waiting for C...
3	656	396093584861	12/5/14			T	APEX	Arthur and the world	6	Waiting for C...

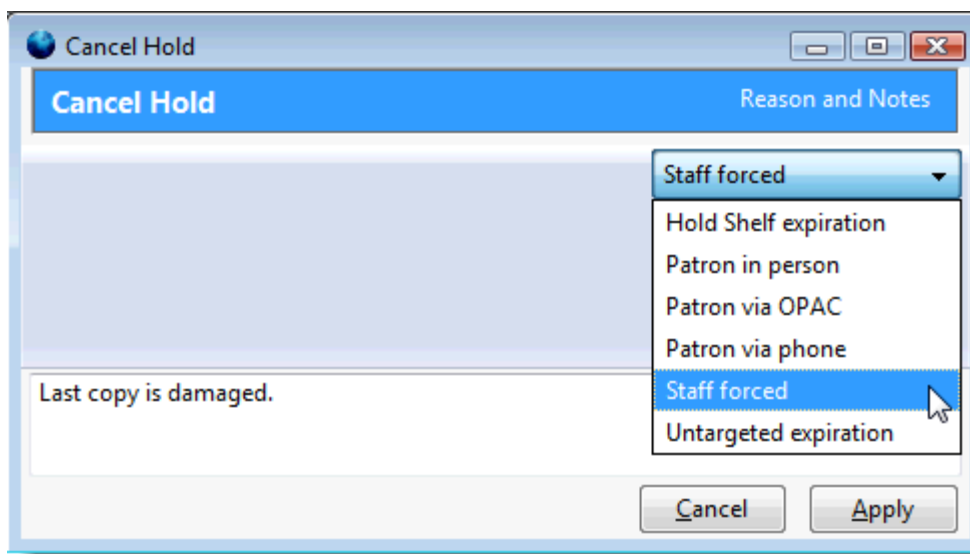
Actions menu:

- Show Last Few Circulations
- Set Desired Copy Quality
- Edit Pickup Library
- Edit Notification Settings
- Edit Hold Dates
- Activate
- Suspend
- Set Top of Queue
- Un-Set Top of Queue
- Transfer To Marked Title
- Mark Item Damaged
- Mark Item Missing
- Find Another Target
- Cancel Hold
- Uncancel Hold

Print

3. Manage the hold by choosing an action on the list.

- If you want to cancel the hold, click Cancel Hold from the menu. You are prompted to select a reason and put in a note if required. To finish, click Apply.



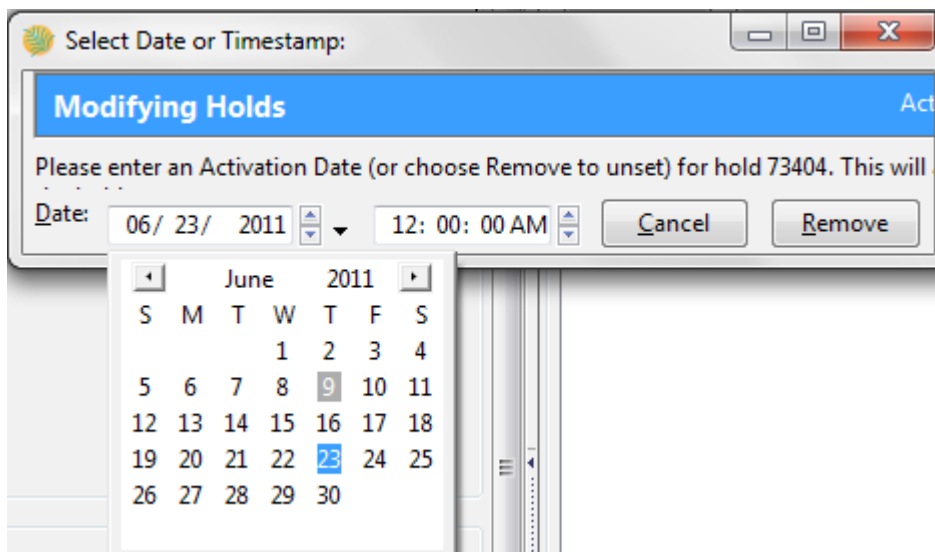
A captured hold with a status of On Hold Shelf can be cancelled by either staff or patrons. But the status of the item will not change until staff check it in.

- If you want to suspend a hold or activate a suspended hold, click the appropriate action on the list. You will be prompted to confirm your action. Suspended holds have a No value in the Active? column.

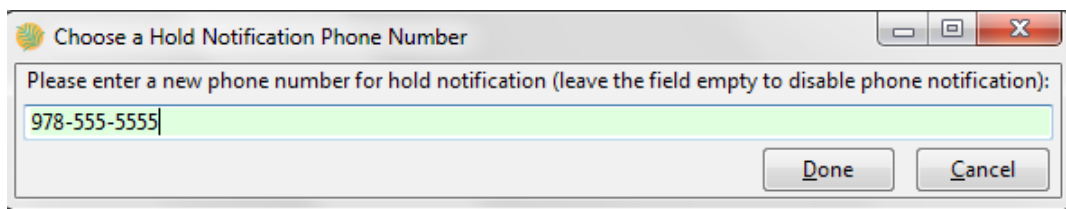


Suspended holds will not be filled but its hold position will be kept. They will automatically become active on the activation date if there is an activation date in the record. Without an activation date, the holds will remain inactive until staff or a patron activates them manually.

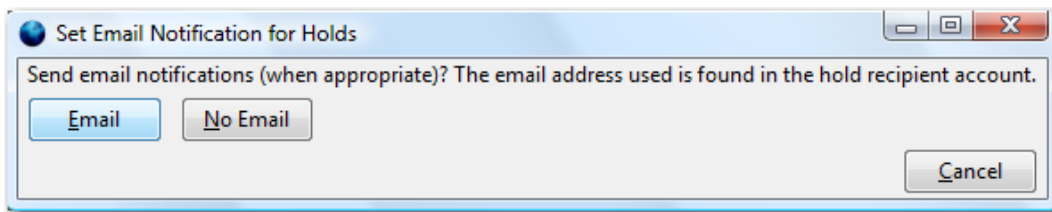
- c. You may edit the Activation Date and Expiration Date by using the corresponding action on the Action for Selected Holds dropdown menu. You will be prompted to enter the new date. Use the calendar widget to choose a date, then click Apply. Use the Remove button to unset the date.



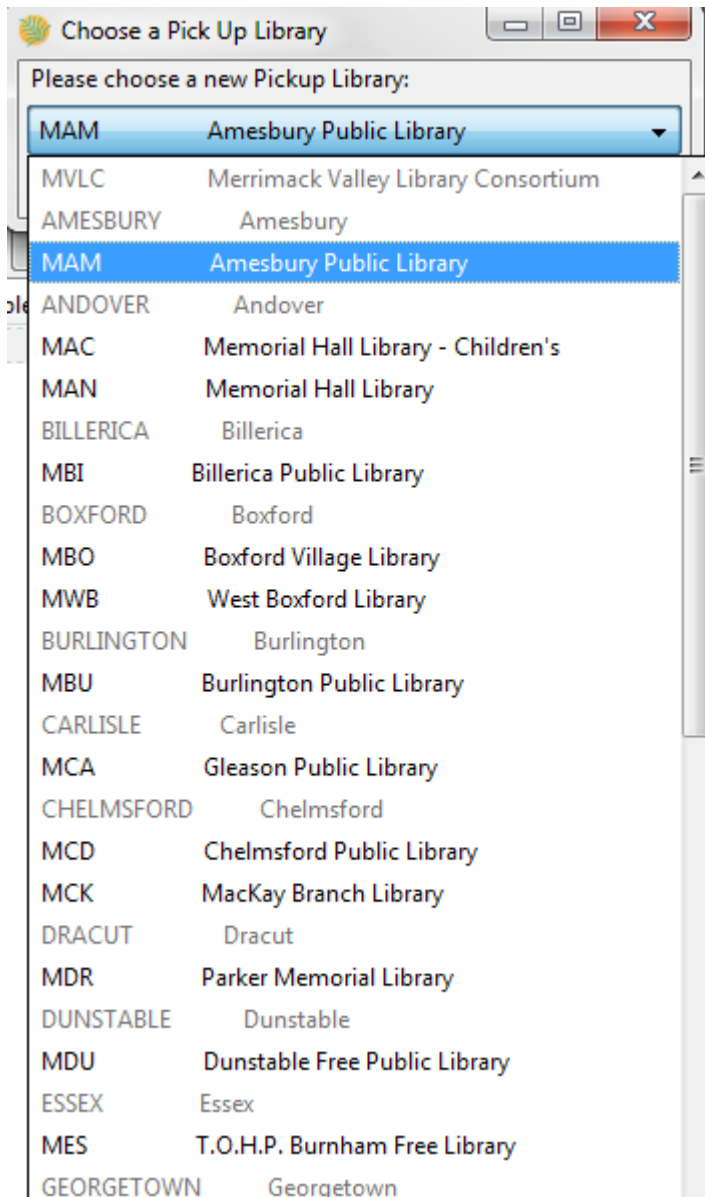
- d. Hold shelf expire time is automatically recorded in the hold record when a hold is filled. You may edit this time by using the Edit Shelf Expire Time on the Action for Selected Holds dropdown menu. You will be prompted to enter the new date. Use the calendar widget to choose a date, then click Apply.
- e. If you want to enable or disable phone notification or change the phone number, click Edit Phone Notification. You will be prompted to enter the new phone number. Make sure you enter a valid and complete phone number. The phone number is used for this hold only and can be different from the one in the patron account. It has no impact on the patron account. If you leave it blank, no phone number will be printed on the hold slip.



- f. If you want to enable or disable email notification for the hold, click Set Email Notification. Click Email or No Email on the prompt screen.



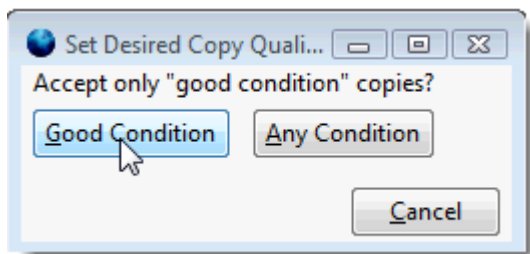
- g. Pickup location can be changed by clicking Edit Pickup Library. Click the dropdown list of all libraries and choose the new pickup location. Click Done.





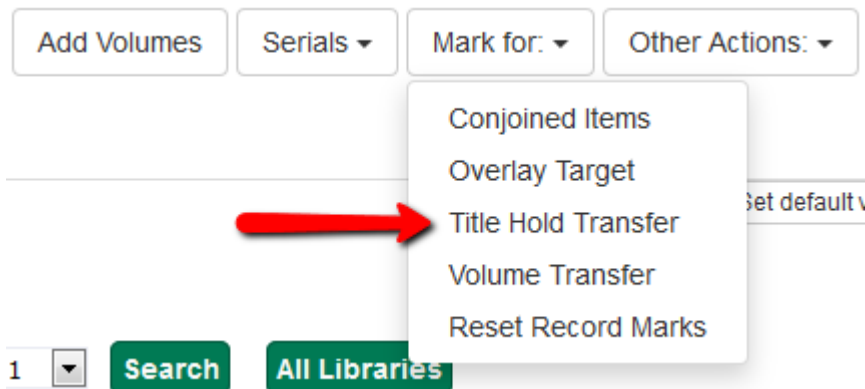
Staff can change the pickup location for holds with in-transit status. Item will be sent in transit to the new destination. Staff cannot change the pickup location once an item is on the holds shelf.

- h. The item's physical condition is recorded in the copy record as Good or Mediocre in the Quality field. You may request that your holds be filled with copies of good quality only. Click Set Desired Copy Quality on the Actions for Selected Holds list. Make your choice in the pop-up window.

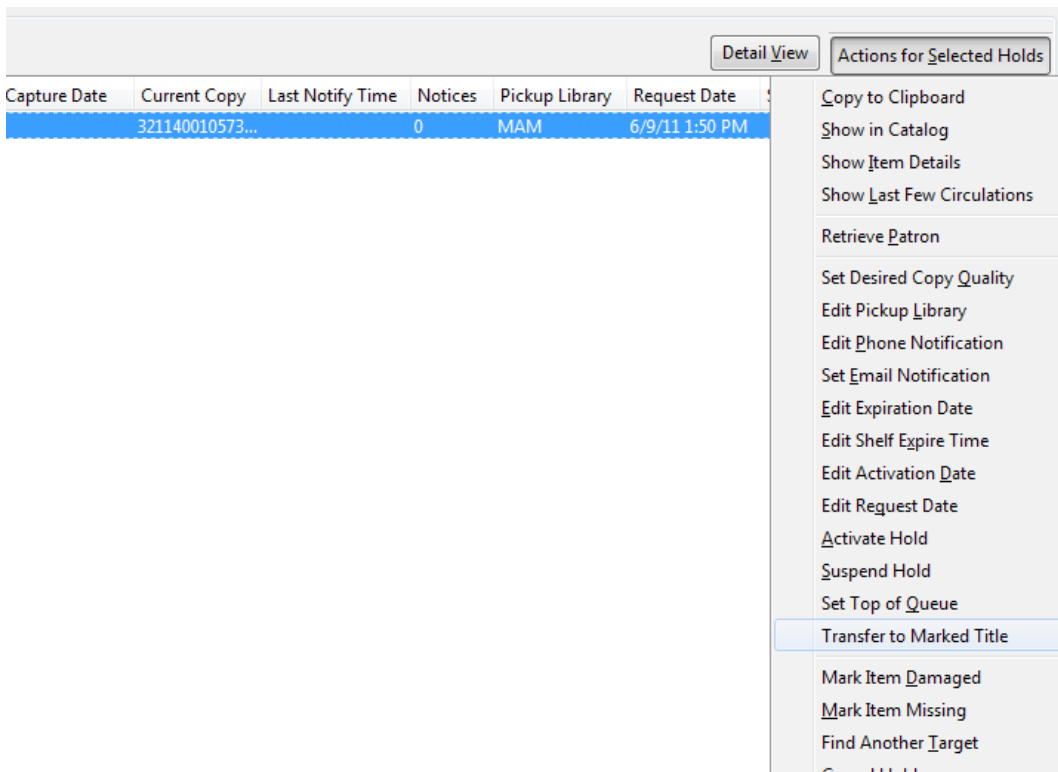


Transferring Holds

1. Holds on one title can be transferred to another with the hold request time preserved. To do so, you need to find the destination title and click Actions for this Record → Mark as Title Hold Transfer Destination.

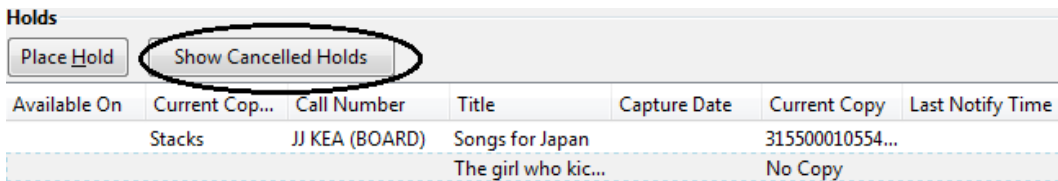


2. Select the hold you want to transfer. Click Actions for Selected Holds → Transfer to Marked Title.

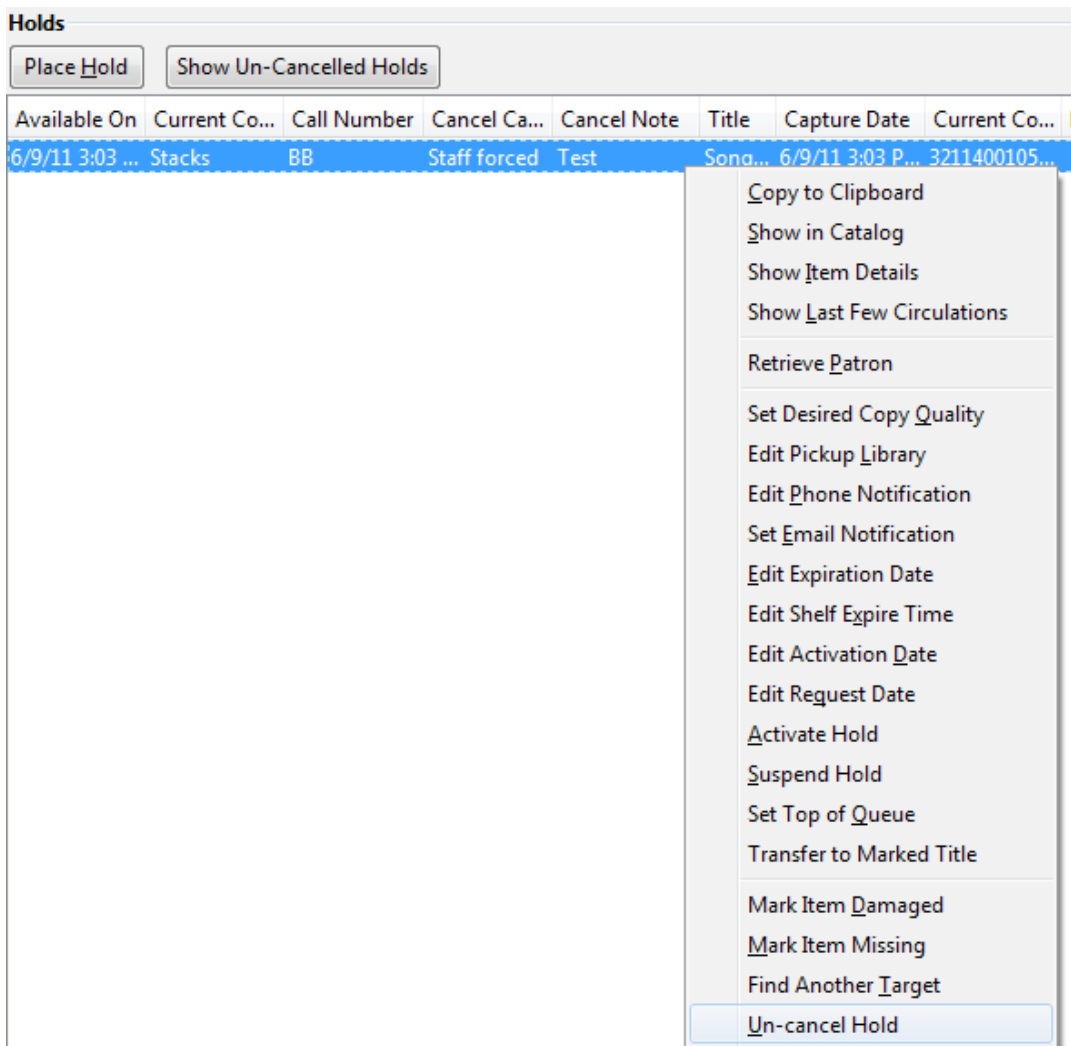


Cancelled Holds

1. Cancelled holds can be displayed. Click the Show Cancelled Holds button on the Holds screen.



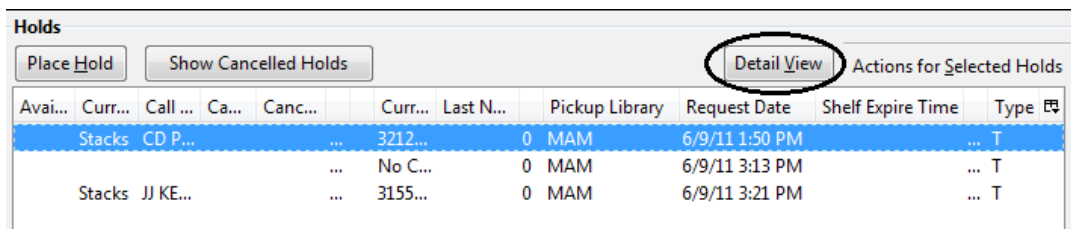
2. You can un-cancel holds.



Based on your library's setting, hold request time can be reset when a hold is un-cancelled.

Viewing Details & Adding Notes to Holds

1. You can view details of a hold by selecting a hold then clicking the Detail View button on the Holds screen.



2. You may add a note to a hold in the Detail View.

Holds

Place Hold Show Cancelled Holds List View Actions for Selected Holds

Record Summary (View MARC)

Title: Songs for Japan Edition: TCN: 1290952 Created By: admin
 Author: Pub Date: 2011 Record ID: 1290952 Last Edited By: admin
 Bib Call #: 781.66 Record Owner: Last Edited On: 5/26/11 4:25 PM

Available On	Current Cop...	Call Number	Title	Capture Date	Current Copy	Last Notify Time	Notices	Pickup Library	Request Date	Shelf Expire Time	Status	Type
	Stacks	CD POPULAR S...	Songs for Japan		32127000913...		0	MAM	6/9/11 1:50 PM		Waiti...	T

Notes Notifications

Add Note

3. Notes can be printed on the hold slip if the Print on slip? checkbox is selected. Key in the message then click Add Note.

Add Note

New Note

Public?

Print on slip?

Title

Note

Cancel Add Note

Displaying Queue Position

Using the Column Picker, you can display Queue Position and Total number of Holds.

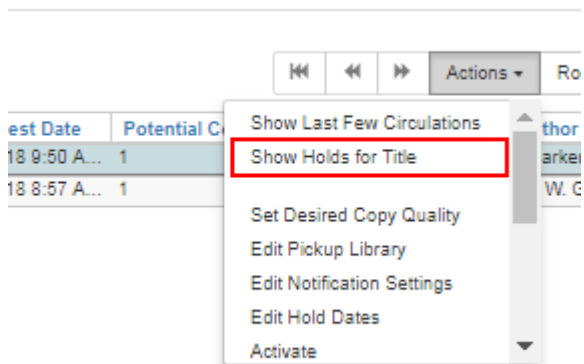
Holds

Place Hold Show Cancelled Holds Detail View Actions for Selected Holds

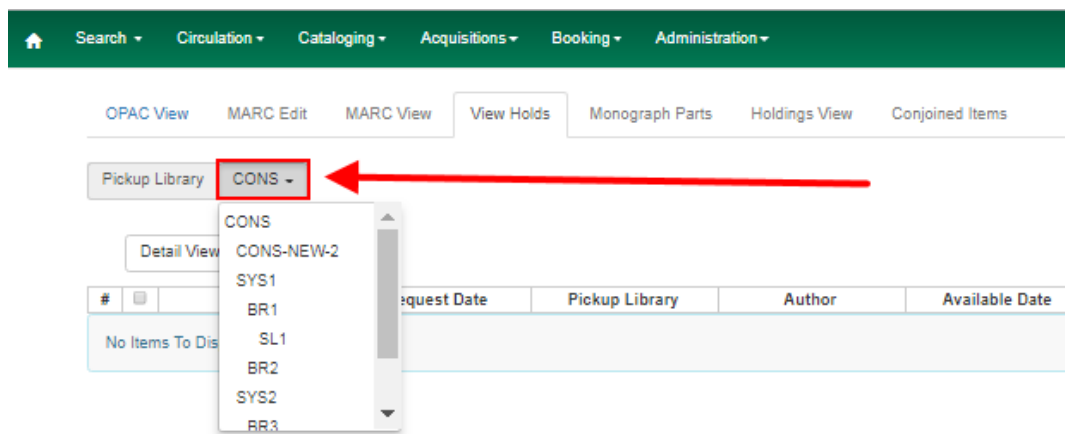
Available On	Capture Date	Current Copy	Request Date	Queue Position	Title	Type	Status	Top of Queue	Total Number...
		No Copy	2011-03-09 1...	1	new record for ...	T	Waiting for copy	Yes	2
		351802001333...	2011-03-07 1...	2	The girl who kic...	T	Waiting for cap...	No	2
		No Copy	2011-03-02 0...	4	Dora's big birth...	T	Waiting for copy	No	7
		No Copy	2011-02-21 0...	2	FATAL ERROR	T	Waiting for copy	No	3

Managing Holds in Title Records

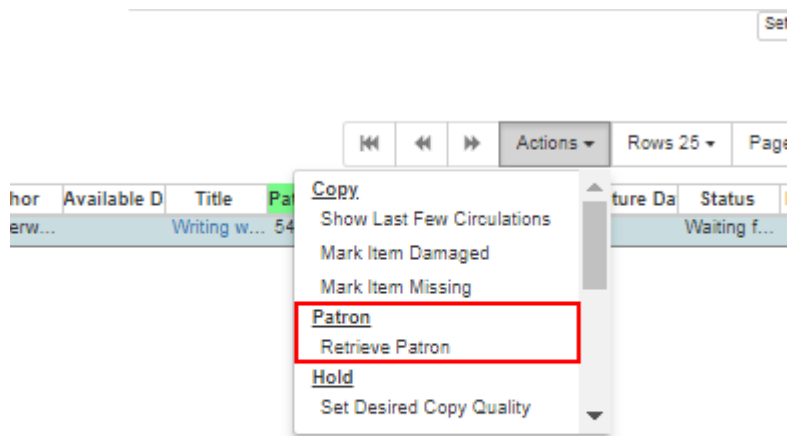
1. Retrieve and display the title record in the catalog.
2. Click Actions for this Record → View Holds.



3. All holds on this title to be picked up at your library are displayed. Use the Filter checkbox and Pickup Library to view holds to be picked up at other libraries.



4. Highlight the hold you want to edit. Choose an action from the Actions for Selected Holds menu. For more information see the [Actions for Selected Holds](#) section.



5. You can retrieve the hold requestor's account by selecting Retrieve Patron on the above dropdown menu.

Retargeting Holds

Holds need to be retargeted whenever a new item is added to a record, or after some types of item status changes, for instance when an item is changed from On Order to In Process. The system does not automatically recognize the newly added items as available to fill holds.

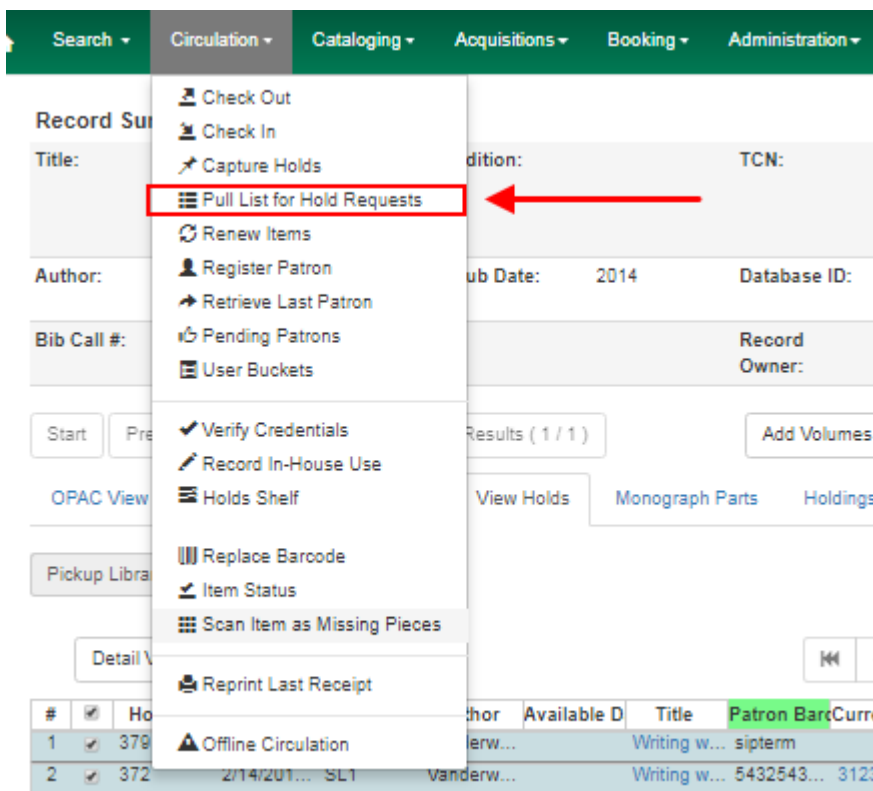
1. View the holds for the item.
2. Highlight all the holds for the record, which have a status of Waiting for Copy. If there are a lot of holds, it may be helpful to sort the holds by Status.
3. Click on the head of the status column.
4. Under Actions for Selected Holds (Alt+S), select Find Another Target (Alt+T)
5. A window will open asking if you are sure you would like to reset the holds for these items.
6. Click Yes (Alt+Y). Nothing may appear to happen, or if you are retargeting a lot of holds at once, your screen may go blank or seem to freeze for a moment while the holds are retargeted.
7. When the screen refreshes, the holds will be retargeted. The system will now recognize the new items as available for holds.

Pulling & Capturing Holds

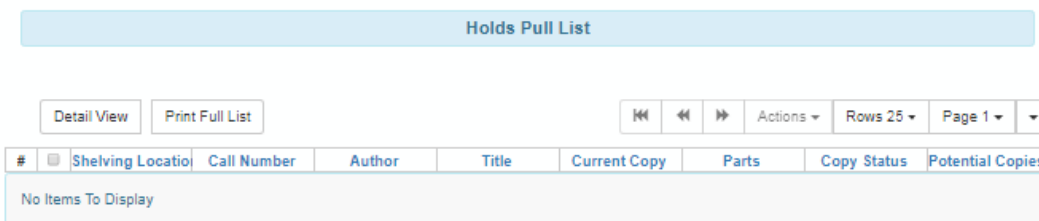
Holds Pull List

There are usually four statuses a hold may have: Waiting for Copy, Waiting for Capture, In Transit and Ready for Pickup.

1. Waiting-for-copy: all holdable copies are checked out or not available.
2. Waiting-for-capture: an available copy is assigned to the hold. The item shows up on the Holds Pull List waiting for staff to search the shelf and capture the hold.
3. In Transit: holds are captured at a non-pickup branch and on the way to the pick-up location.
4. Ready-for-pick-up: holds are captured and items are on the Hold Shelf waiting for patrons to pick up. Besides capturing holds when checking in items, Evergreen matches holds with available items in your library at regular intervals. Once a matching copy is found, the item's barcode number is assigned to the hold and the item is put on the Holds Pull List. Staff can print the Holds Pull List and search for the items on shelves.
5. To retrieve your Holds Pull List, select Circulation → Pull List for Hold Requests.



6. The Holds Pull List is displayed. You may re-sort it by clicking the column labels, e.g. Title. You can also add fields to the display by using the column picker.





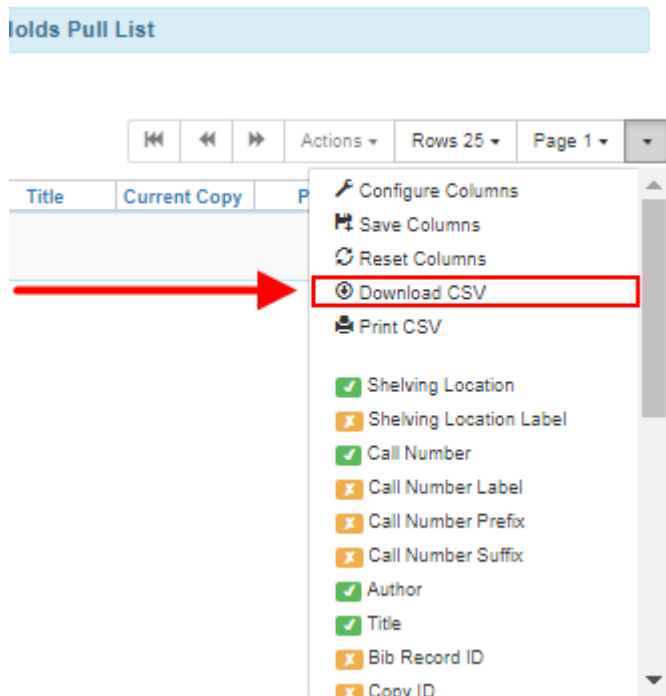
Column adjustments will only affect the screen display and the CSV download for the holds pull list. It will not affect the printable holds pull list.

7. The maximum number of holds initially displayed on the pull list is about 100. Use Fetch More Holds to retrieve more records. You may have to click Reload for those records to appear in the display.

Available On	Call Number	Holdable Part	Capture Date	Current Copy
	DVD LOST			and1
	CD BiographySWAY...			31330006720456
	DVD DIR /Feature			31330004660423
	CD VocalGOT			31330003588393
	Fic			31330006749398
	Fic			31330004260430
	PB/A			31330006731693
	Fic			31330006492353
	Fic M			31330006928257
	346.065 Ste			31330005777036
	CD PopularNOW			31330006246197

8. The following options are available for printing the pull list:

- Print Full Pull List prints Title, Author, Shelving Location, Call Number and Item Barcode. This method uses less paper than the alternate strategy.
- Print Full Pull List (Alternate Strategy) prints the same fields as the above option but also includes a patron barcode. This list will also first sort by copy location, as ordered under Admin → Local Administration → Copy Location Order.
- Save List CSV to File - This option is available from the List Actions button and saves all fields in the screen display to a CSV file. This file can then be opened in Excel or another spreadsheet program. This option provides more flexibility in identifying fields that should be printed.



With the CSV option, if you are including barcodes in the holds pull list, you will need to take the following steps to make the barcode display properly: in Excel, select the entire barcode column, right-click and select Format Cells, click Number as the category and then reduce the number of decimal places to 0.

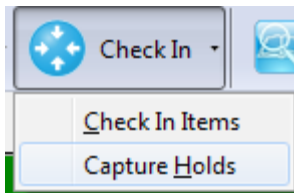
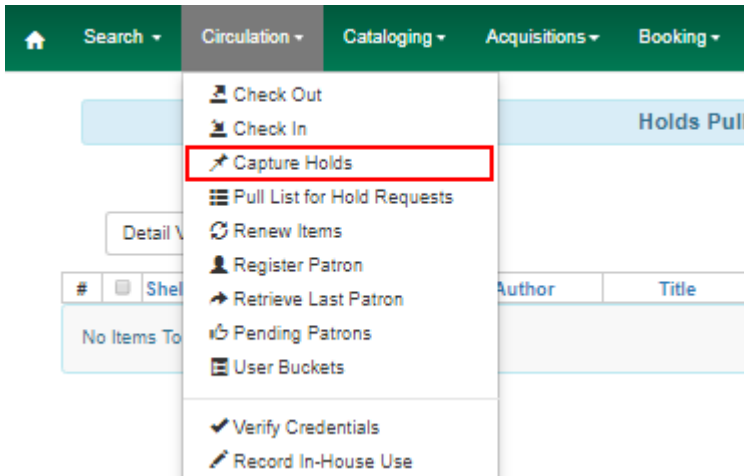
9. You may perform hold management tasks by using the Actions for Selected Holds dropdown list.

The Holds Pull List is updated constantly. Once an item on the list is no longer available or a hold on the list is captured, the items will disappear from the list. The Holds Pull List should be printed at least once a day.

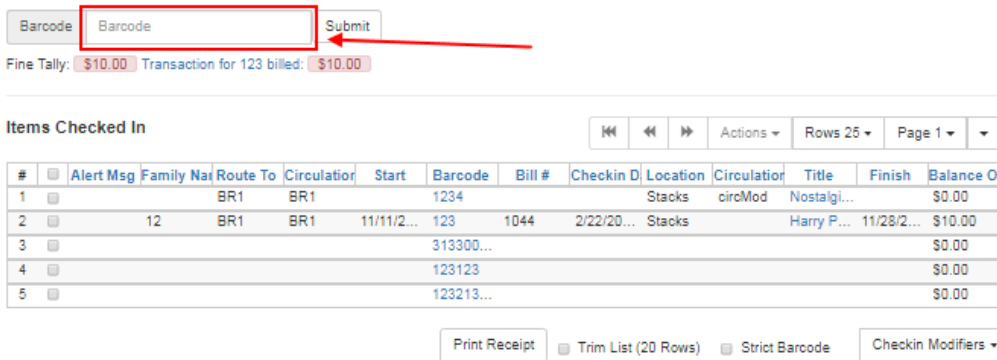
Capturing Holds

Holds can be captured when a checked-out item is returned (checked in) or an item on the Holds Pull List is retrieved and captured. When a hold is captured, the hold slip will be printed and if the patron has chosen to be notified by email, the email notification will be sent out. The item should be put on the hold shelf.

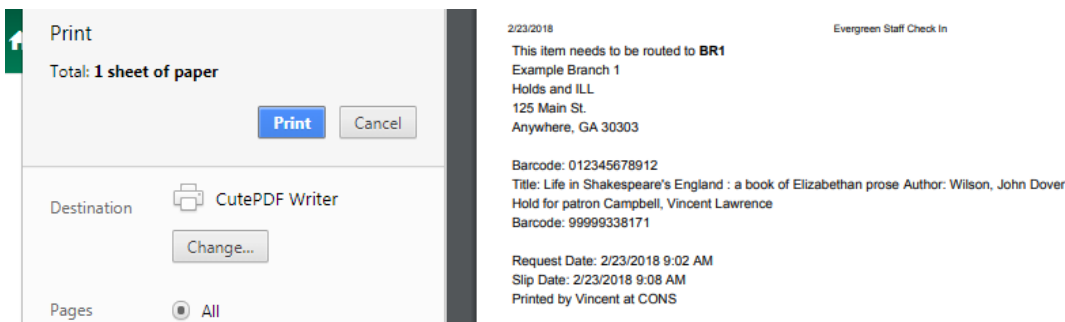
1. To capture a hold, select Circulation → Capture Holds; click Check In → Capture Holds on the circulation toolbar; or hit Shift-F2.



2. Scan or type barcode and click Submit.

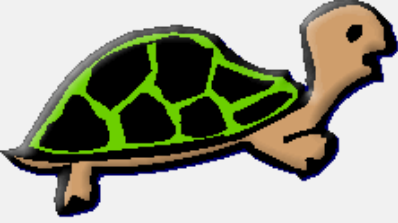


3. The following hold slip is automatically printed. (This slip will not display on the Capture Holds screen, but will display on a Check In screen not set to automatically print slips.)



4. If the item should be sent to another location, a hold transit slip will be printed. (This slip will not display on the Capture Holds screen, but may display on a Check In screen that is not set to automatically print slips.)

Transit Slip



Destination: MAM.
Amesbury Public Library

Barcode: 31330006867760
Title: The spiritual life of water : its power and purpose
Author: Bartholomew, Alick

Hold for patron Dickinson, Emily
Barcode: 1234

Request Date: 2011-05-27
Slip Date: 2011-05-27

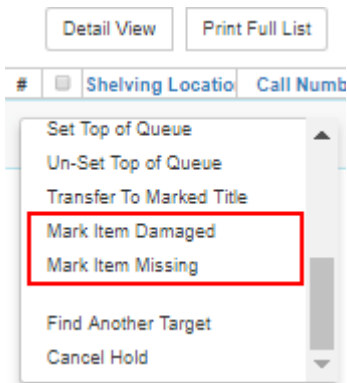


If a patron has an OPAC/Staff Client Holds Alias in his/her account, it will be used on the hold slip instead of the patron's name. Holds can also be captured on the Circulation → Check In Items screen where you have more control over automatic slip printing.

Handling Missing and Damaged Item

If an item on the holds pull list is missing or damaged, you can change its status directly from the holds pull list.

1. From the Holds Pull List, right-click on the item and either select Mark Item Missing or Mark Item Damaged.



2. Evergreen will update the status of the item and will immediately retarget the hold.

Holds Notification Methods

1. In Evergreen, patrons can set up their default holds notification method in the Account Preferences area of My Account. Staff cannot set these preferences for patrons; the patrons must do it when they are logged into the public catalog.

Account Information and Preferences

Notify by Email by default when a hold is ready for pickup?	<input type="checkbox"/>
Notify by Phone by default when a hold is ready for pickup?	<input type="checkbox"/>
Default Phone Number	<input type="text"/>
Notify by Text by default when a hold is ready for pickup?	<input type="checkbox"/>
Default Mobile Carrier	<input type="text" value="Please select your mobile carrier"/> Note: carrier charges may apply
Default Mobile Number	<input type="text"/> Hint: use the full 10 digits of your phone #, no spaces, no dashes
Email checkout receipts by default?	<input type="checkbox"/>

Save

The “Default Phone Number” option is the default for those users who have not yet set a preference.

2. Patrons with a default notification preference for phone will see their phone number at the time they place a hold. The checkboxes for email and phone notification will also automatically be checked.

Place Hold

A Caribbean mystery, by Agatha Christie.

[Advanced Hold Options](#)

Pickup location:

Notify when hold is ready for pickup?

Yes, by Email

No configured Email address. See "My Account" for setting your Email address.

Yes, by Phone

Phone Number:

Yes, by Text Messaging

Mobile carrier: Note: carrier charges may apply

Mobile number: Hint: use the full 10 digits of your phone #, no spaces, no dashes

Suspend this hold? [?](#)

Yes [Set activation date](#)

3. The patron can remove these checkmarks at the time they place the hold or they can enter a different phone number if they prefer to be contacted at a different number. The patron cannot change their e-mail address at this time.

Create / Edit a Hold	
Recipient	Everdeen, Katniss
Title:	The girl who kicked the hornet's nest
Author	Larsson, Stieg
Format	Books
Physical Description:	print 746 p. ; 18 cm.
Contact telephone number:	<input type="text" value="999-999-9"/> <input type="text" value="000-000-0000"/>
Enable phone notifications for this hold?	<input checked="" type="checkbox"/>
Contact email address:	123@mail.ext
Enable email notifications for this hold?	<input type="checkbox"/>
Pickup location	<input type="text" value="Billerica Public Library"/>
Expiration date	<input type="text"/>
Suspend this hold (Help)	<input type="checkbox"/>

[Advanced Hold Options](#)

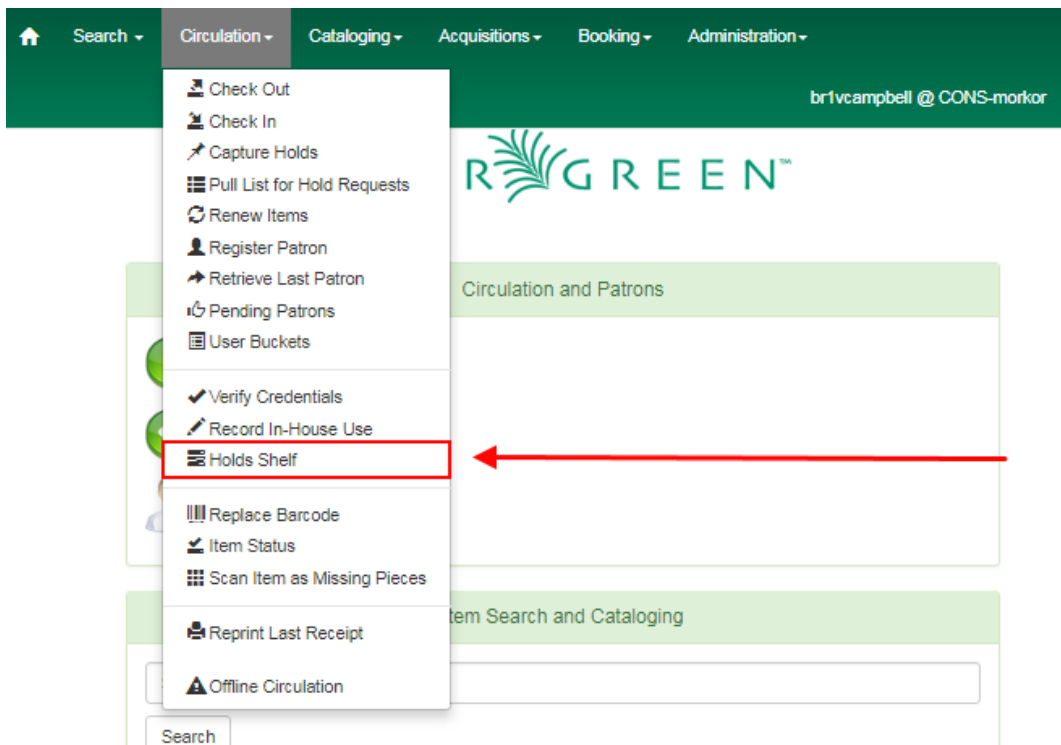
4. When the hold becomes available, the holds slip will display the patron's e-mail address only if the patron selected the Notify by Email by default when a hold is ready for pickup? checkbox. It will display a phone number only if the patron selected the Notify by Phone by default when a hold is ready for pickup? checkbox.



If the patron changes their contact telephone number when placing the hold, this phone number will display on the holds slip. It will not necessarily be the same phone number contained in the patron's record.

Clearing Shelf-Expired Holds

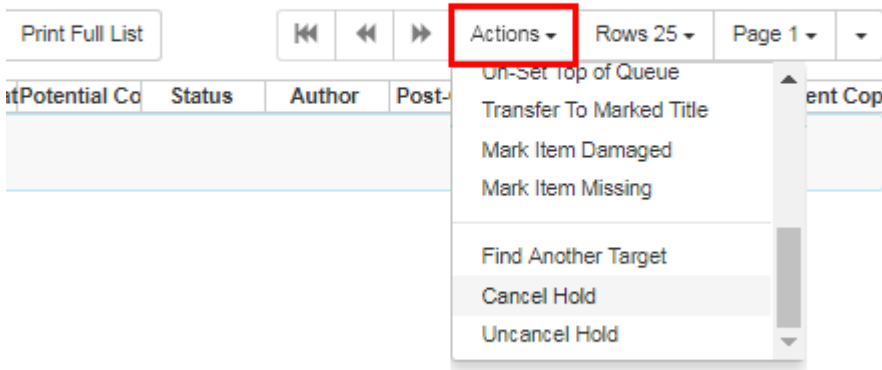
1. Items with Ready-for-Pickup status are on the Holds Shelf List. The Holds Shelf List can help you manage items on the holds shelf. To see the holds shelf list, select Circulation → Browse Holds Shelf.



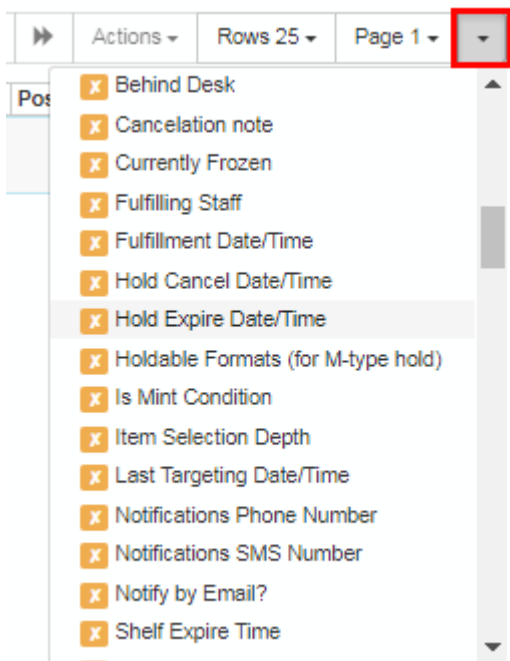
2. The Holds Shelf List is displayed. Note the Actions for Selected Holds are available, as in the patron record.

You can cancel stale holds here.

Hold Shelf

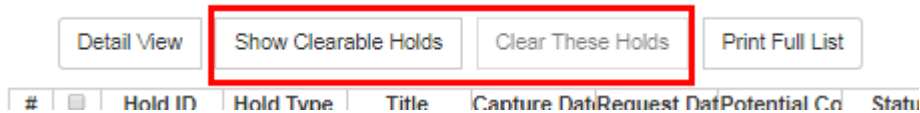


3. Use the column picker to add and remove fields from this display. Two fields you may want to display are Shelf Expire Time and Shelf Time.



4. Check the View Clearable Holds checkbox to list expired holds, wrong-shelf holds and canceled holds only. Expired holds are holds that expired before today's date.

5. Click the Print button if you need a printed list. To format the printout customize the Holds_shelf receipt template. This can be done in Admin → Workstation Administration → Receipt Template Editor.
6. The Clear These Holds button is lit up. Click it and the expired holds will be canceled.



7. Bring items down from the hold shelf and check them in.



If you cancel a ready-for-pickup hold, you must check in the item to make it available for circulation or trigger the next hold in line.

Hold shelf expire time is inserted when a hold achieves on-hold-shelf status. It is calculated based on the interval entered in Local Admin → Library Settings → Default hold shelf expire interval.



The clear-hold-shelf function cancels shelf-expired holds only. It does not include holds canceled by patron. Staff needs to trace these items manually according to the hold slip date.

Alternate Hold Pick up Location

Abstract

This feature enables libraries to configure an alternate hold pick up location. The alternate pick up location will appear in the staff client to inform library staff that a patron has a hold waiting at that location. In the stock Evergreen code, the default alternate location is called "Behind Desk". This label can be changed to accommodate a library's specific hold pick up location. For example, if a library has a drive thru window for hold pick up, the alternate location can be changed to display as "Drive Thru".

Configuration

The alternate pick up location is disabled in Evergreen by default. It can be enabled by setting Holds: Behind Desk Pickup Supported to True in the Library Settings Editor. Server side changes to configuration files are required to enable this feature and edit the alternate pick up location label. The following files and labels need to be changed:

- Open-ILS/src/templates/opac/myopac/prefs_settings.tt2

```
<td><label for='[% setting %]%'>[% l('Pickup holds from the drive-thru when possible?') %]</label></td>
```

- Open-ILS/web/opac/locale/en-US/lang.dtd

```
<!ENTITY staff.patron_display.holds_available_behind_desk.label 'Drive-Thru:'>
```

- Open-ILS/xul/staff_client/server/locale/en-US/circ.properties

```
staff.circ.utils.hold.behind_desk=Drive-Thru
```

- Open-ILS/xul/staff_client/server/locale/en-US/patron.properties

```
staff.patron.summary.hold_counts_behind_desk=Available / Total (Drive-Thru)
```

Libraries can also choose to give patrons the ability to opt-in to pick up holds at the alternate location through their OPAC account. To add this option, set the OPAC/Patron Visible field in the User Setting Type Hold is behind Circ Desk to True. The User Setting Types can be found under Admin → Server Administration → User Setting Types.

Display

When enabled, the alternate pick up location will appear in several places in the staff client. The alternate pick up location and the number of items that are ready for pick up at that location will be displayed in the Patron Account Summary and under the Holds button in the patron account. Staff will also see the general number of holds available and holds placed by the patron.

The screenshot shows the staff client interface for a patron named Clark, Monty Daniel II. The 'Holds' button is highlighted in blue, and the 'Drive-Thru' column in the holds table is highlighted in red. The 'Holds' section shows 1/3 (1) holds available, with 1 available and 1 drive-thru hold.

#	Available On	Capture Date	Current Copy	Drive-Thru	Last Notify Time	Notices	Pickup Library	Request Date	Status	Title	Type
1			CONC40000598	Yes		0	BR1	6/6/13 1:49 ...	Waitin...	The five ...	T
2			CONC44000059	Yes		0	BR1	6/6/13 1:48 ...	Waitin...	Comple...	T
3	6/6/13 2:05 PM	6/6/13 2:05 PM	CONC4200074	Yes		0	BR1	6/6/13 1:48 ...	Ready...	The pian...	T

If configured, patrons will see the option to opt-in to the alternate location in the Account Preferences section of their OPAC Account.

EVERGREEN Administrator System Account

0 Checked Out 0 On Hold

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#)

Search All Formats for Keyword in Example Consortium Search

Account Summary Items Checked Out Holds Account Preferences My Lists

Personal Information Notification Preferences Search and History Preferences

Account Information and Preferences

Search hits per page 10

Preferred search location Example Consortium

Preferred pickup location Example Branch 1

Keep history of checked out items?

Keep history of holds?

Skip warning when adding to temporary book list?

Pickup holds from the drive-thru when possible?

Save

Ensure your account has a valid email address so that we can notify you about available holds, items that are about to be overdue, and overdue items!

Dynamic catalog Bottom Link 2 Bottom Link 3 Bottom Link 4 Bottom Link 5

Display Hold Types on Pull Lists

This feature ensures that the hold type can be displayed on all hold interfaces.

You will find the following changes to the hold type indicator:

1. The hold type indicator will display by default on all XUL-based hold interfaces. XUL-based hold interfaces are those that number the items on the interface. This can be overridden by saving column configurations that remove the Type column.
2. The hold type indicator will display by default on the HTML-based pull list. To access, click Circulation → Pull List for Hold Requests → Print Full Pull List (Alternate Strategy).
3. The hold type indicator can be added to the Simplified Pull List. To access, click Circulation → Pull List for Hold Requests → Simplified Pull List Interface.

To add the hold type indicator to the simplified pull list, click Simplified Pull List Interface, and right click on any of the column headers. The Column Picker appears in a pop up window. Click the box adjacent to Hold Type, and Click Save. The Simplified Pull List Interface will now include the hold type each time that you log into the staff client.

Hold Pull List

Show the pull list for:

[Filter](#)

#	Shelving Location	Call Number Label
1	Stacks	4XUTLKEY-J9

Column	Display	Auto Width	Sort Priority
#	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Shelving Location	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
Call Number Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
Author	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
Title	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
Barcode	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
Parts	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Hold Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
Hold Notes	<input type="checkbox"/>	<input type="checkbox"/>	

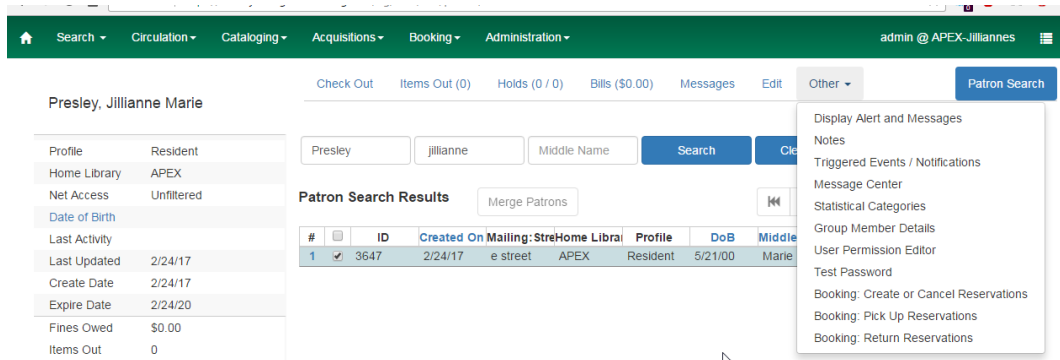
Chapter 113. Booking Module

Creating a Booking Reservation

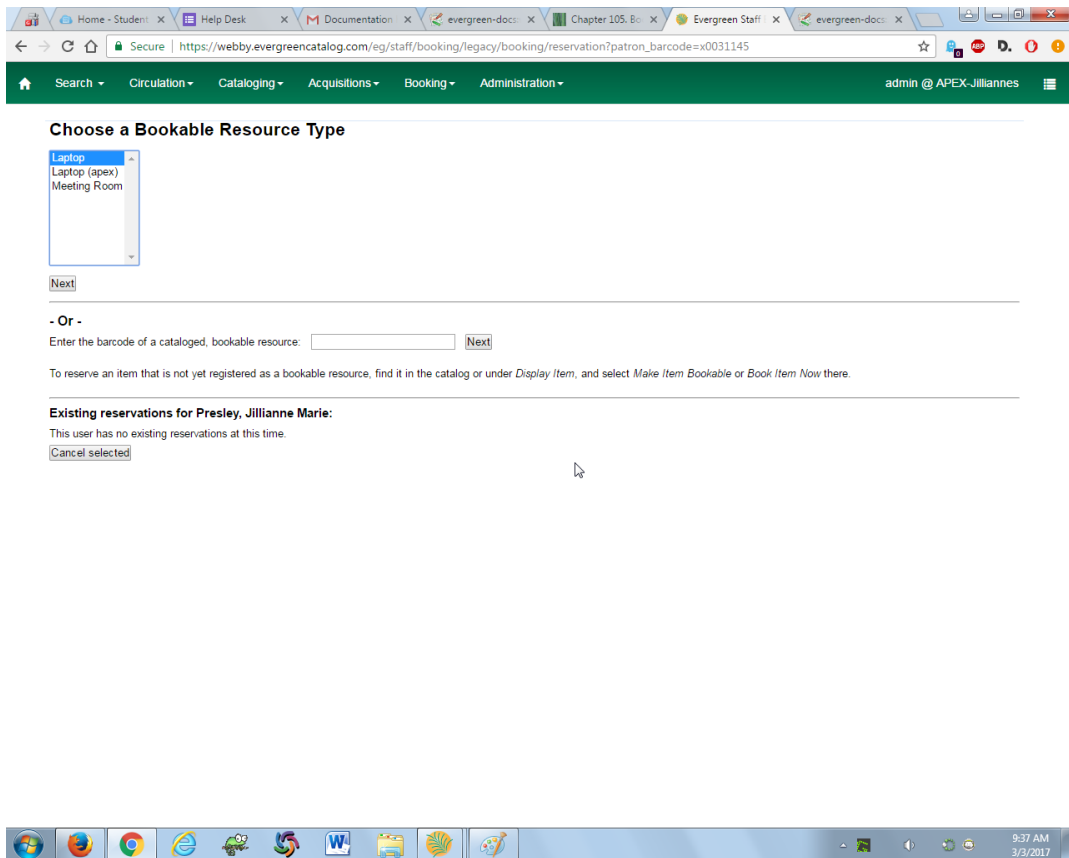
Only staff members may create reservations. A reservation can be started from a patron record, or a booking resource. To reserve catalogued items, you may start from searching the catalogue, if you do not know the booking item's barcode.

To create a reservation from a patron record

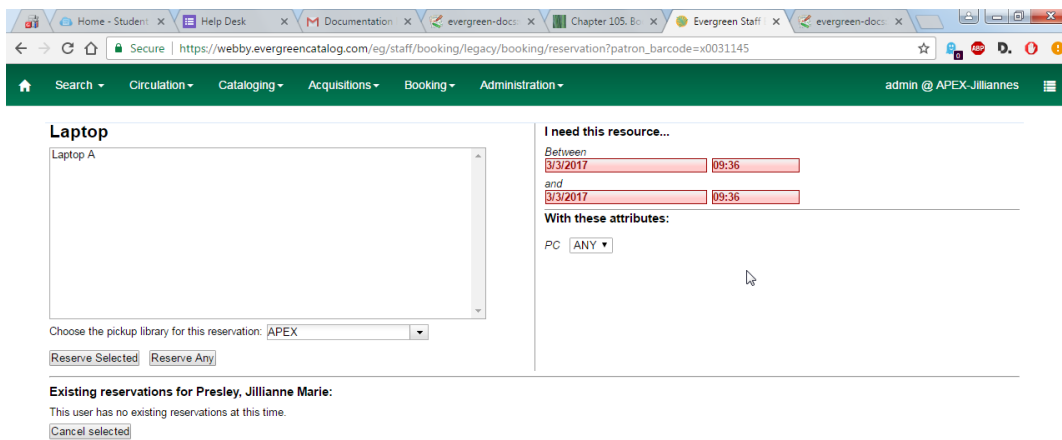
- 1) Retrieve the patron's record.
- 2) Select Other --> Booking --> Create or Cancel Reservations. This takes you to the Reservations Screen.



- 3) For non-catalogued items, choose a Bookable Resource Type and click Next. For catalogued items, enter the barcode in Enter the barcode of a catalogued, bookable resource box, then click Next beside the box.



4) For non-catalogued resources, the Bookable Resource Type and the items associated with the type will appear.



For catalogued items, the title and the item will display in the box.

5) Select the date and time for the reservation in I need this resource... area. Click the date field. A calendar widget will be displayed for you to choose a date. Click the time field to choose time from the dropdown list.

I need this resource...

Between

3/3/2017 10:13

and

3/3/2017 10:13

With these attributes:

Laptop OS ANY ▾

Laptop Group ANY ▾



If incorrect date and time is selected, the date/time boxes will appear in red. For example, if the time for which the reservation is set has already passed, the boxes will appear in red. There must be at least 15 minutes between the creation of the reservation and the start time of the reservation.

6) For non-catalogued resources, patrons may specify special feature(s), if any, of the resource. With these attributes: allows you to do so. For example, if a patron is booking a laptop he/she can choose between PC and Mac and even choose a specific operating system if they need to. Click the drop down arrow to select your option from the list.

With these attributes:

Laptop OS ANY ▾
Laptop Group Win10 ▾
OSX

7) Select the pickup location from the dropdown list.

Choose the pickup library for this reservation: APEX

Reserve Selected Reserve Any

- CONS
- CASEY
- CAS-MAIN
- CASEY-BOOK
- APEX
- APEX-NEW-1
- LEX
- LEX-MAIN
- RICHLAND
- OXFORD

8) If there are multiple copies of the resource and any item listed is acceptable, click Reserve Any. To choose a specific item, select it and then click Reserve Selected.

Go Back Reload Go Forward

Laptop

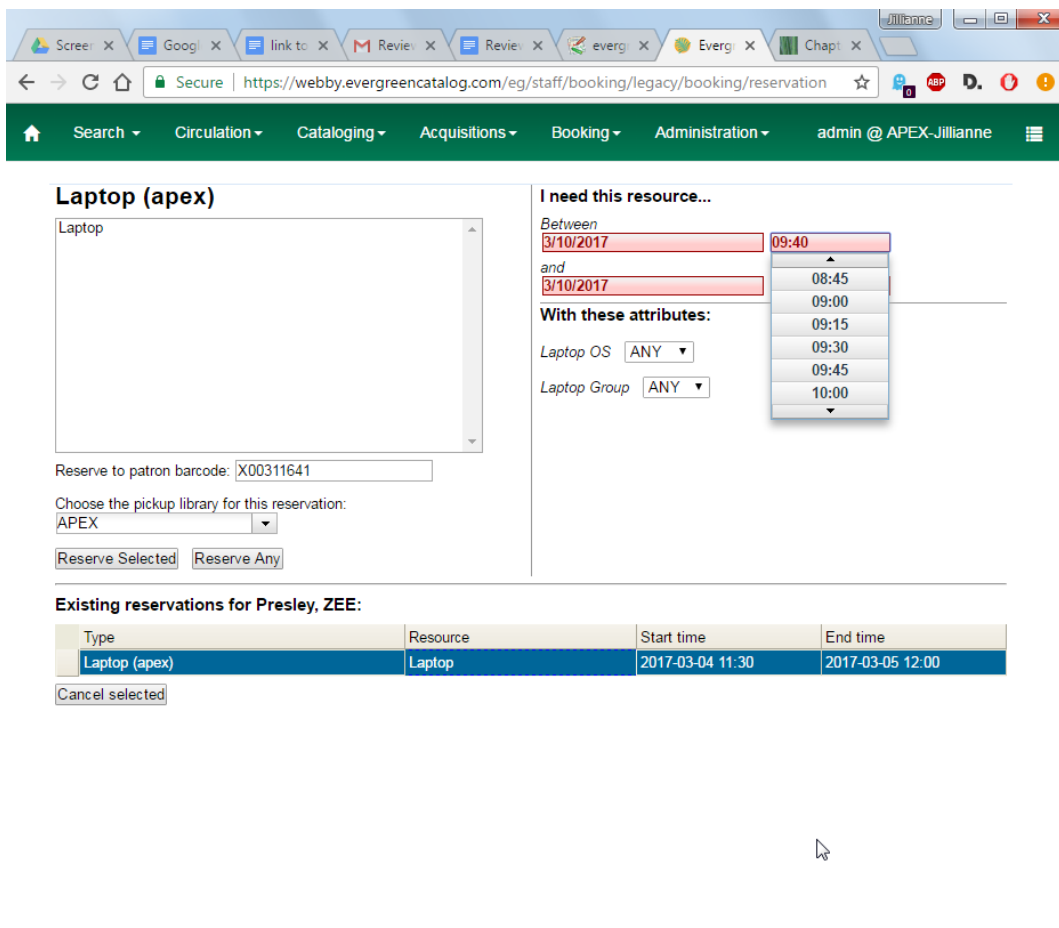
98723000112235
98723000112234
98723000112233
98723000112244
98723000112236

Choose the pickup library for this reservation: BPR

Reserve Selected Reserve Any

9) A message will confirm that the action succeeded. Click OK on the prompt.

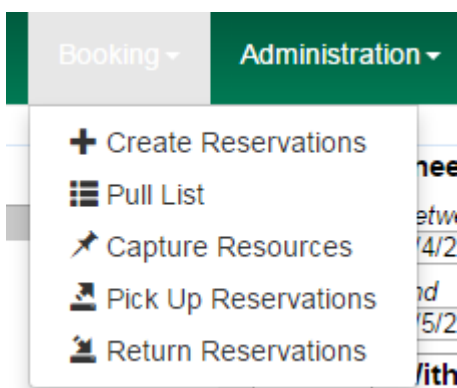
10) The screen will refresh and the reservation will appear below the patron's name at the bottom of the screen.



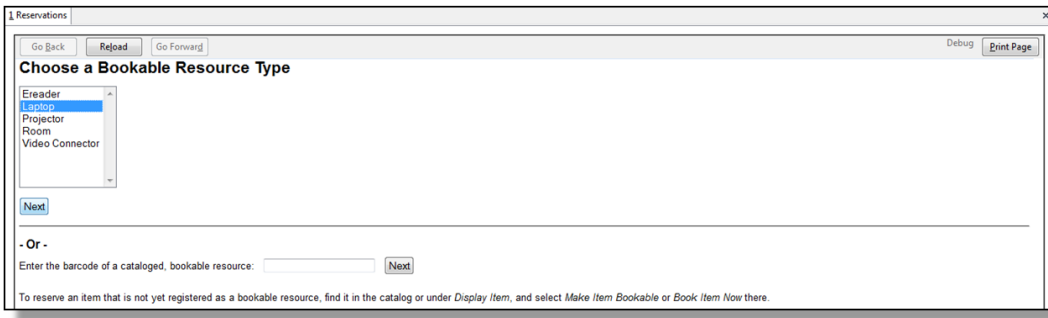
To create a reservation from a booking resource

You need to know the barcode of the patron when you create a reservation for him/her from a booking resource.

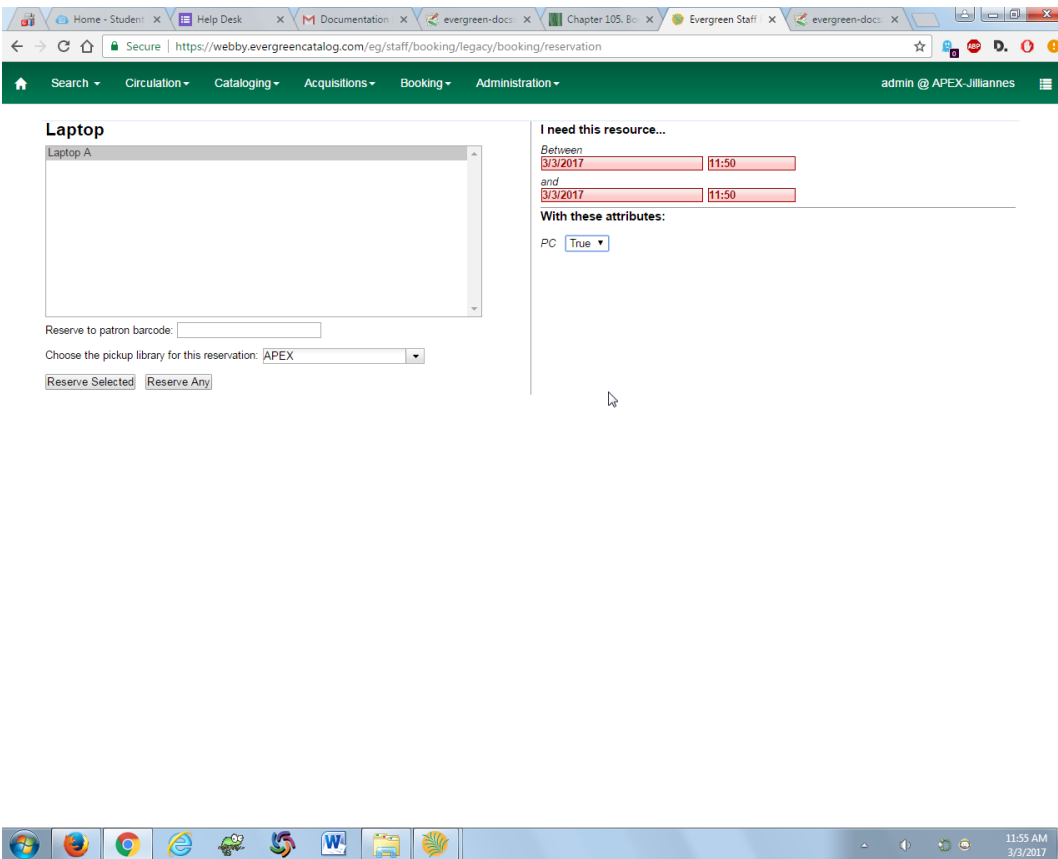
- 1) From the Booking menu, select Create Reservations



- 2) Choose a Bookable Resource Type and click Next or enter the barcode of a catalogued resource and click Next.



3) For non-catalogued resources, a screen showing the Bookable Resource Type and the items associated with the type will appear.



For catalogued resources, the title and item will appear.

4) Enter the user's barcode in the Reserve to patron barcode box. The user's existing reservations, if any, will appear at the bottom of the screen.

The screenshot shows a web browser window with the URL <https://webby.evergreencatalog.com/eg/staff/booking/legacy/booking/reservation>. The page title is "Laptop (apex)".

Laptop (apex)

Laptop

Reserve to patron barcode:

Choose the pickup library for this reservation:

I need this resource...

Between

and

With these attributes:

Laptop OS

Laptop Group

Existing reservations for Presley, ZEE:

Type	Resource	Start time	End time
Laptop (apex)	Laptop	2017-03-04 11:30	2017-03-05 12:00

5) Select the date and time for the reservation in I need this resource... area. Click the date field. A calendar widget will be displayed for you to choose a date. Click the time field to choose time from the dropdown list.

I need this resource...

Between

and

With these attributes:

Laptop OS

Laptop Group



If incorrect date and time is selected, the date/time boxes will appear in red. For example, if the time for which the reservation is set has already passed, the boxes will appear in red. The times must be set correctly for the reservation to be created. There must be at least 15 minutes between the creation of the reservation and the start time of the reservation.

6) For non-catalogued resources, patrons may specify special feature(s), if any, of the resource. The With these attributes: allows you to do so. For example, if a patron is booking a laptop they can choose between PC and Mac and even choose a specific operating system if they need to. Click the dropdown arrow to select your option from the list.

With these attributes:

Laptop OS

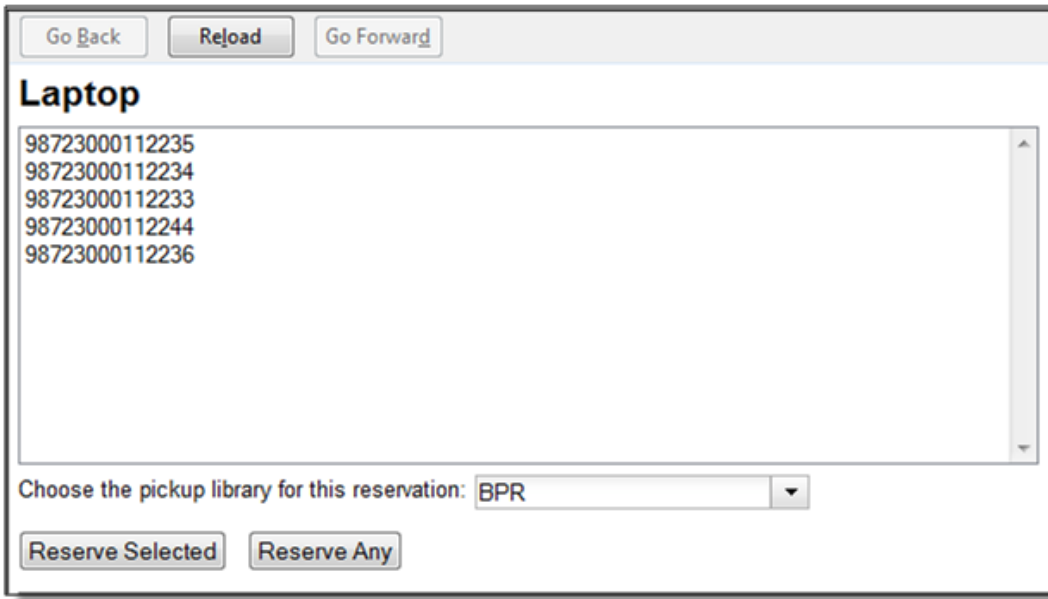
Laptop Group

7) Select the pickup location from the dropdown list.

Choose the pickup library for this reservation:

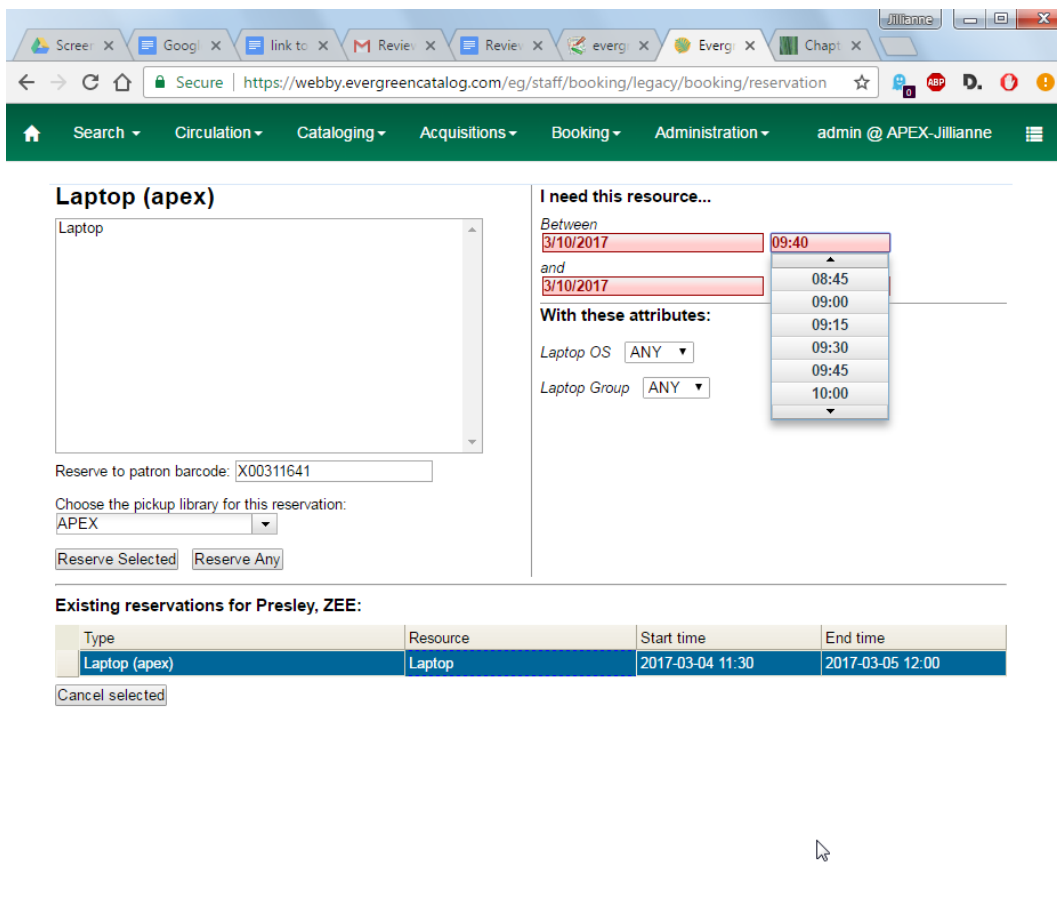
- CONS
- CASEY
- CAS-MAIN
- CASEY-BOOK
- APEX
- APEX-NEW-1
- LEX
- LEX-MAIN
- RICHLAND
- OXFORD

8) If there are multiple copies of the resource and any item listed is acceptable, click Reserve Any. To choose a specific item, select it and then click Reserve Selected.



9) A message will confirm that the action succeeded. Click OK on the prompt.

10) The screen will refresh and the reservation will appear below the patron's name at the bottom of the screen.



Search the catalogue to create a reservation

If you would like to reserve a catalogued item but do not know the item barcode, you may start with a catalogue search.

- 1) In the staff client, select Cataloguing --> Search the Catalogue or keyboard shortcut F3 to search for the item you wish to reserve. You may search by any bibliographic information.
- 2) Click the title to display the record summary. In the Copy Summary, select Copy Details in Actions column.
- 3) The Copy Details will appear in a new row. In the barcode column, click the book now link.
- 4) A screen showing the title and barcodes of available copies will appear.
- 5) Enter the user's barcode in the Reserve to patron barcode box. The user's existing reservations, if any, will appear at the bottom of the screen.
- 6) Select the date and time in I need this resource... section. If the date and time set is incorrect the boxes appear in red. For example, if the time for which the reservation is set has already passed, the boxes will appear in red.
- 7) Select pickup location. If there are multiple copies and any of the listed items is acceptable, click Reserve Any. To choose a specific item, select it and then click Reserve Selected.
- 8) A message will confirm that the action succeeded. Click OK on the prompt.
- 9) The screen will refresh, and the reservation will appear below the user's name.

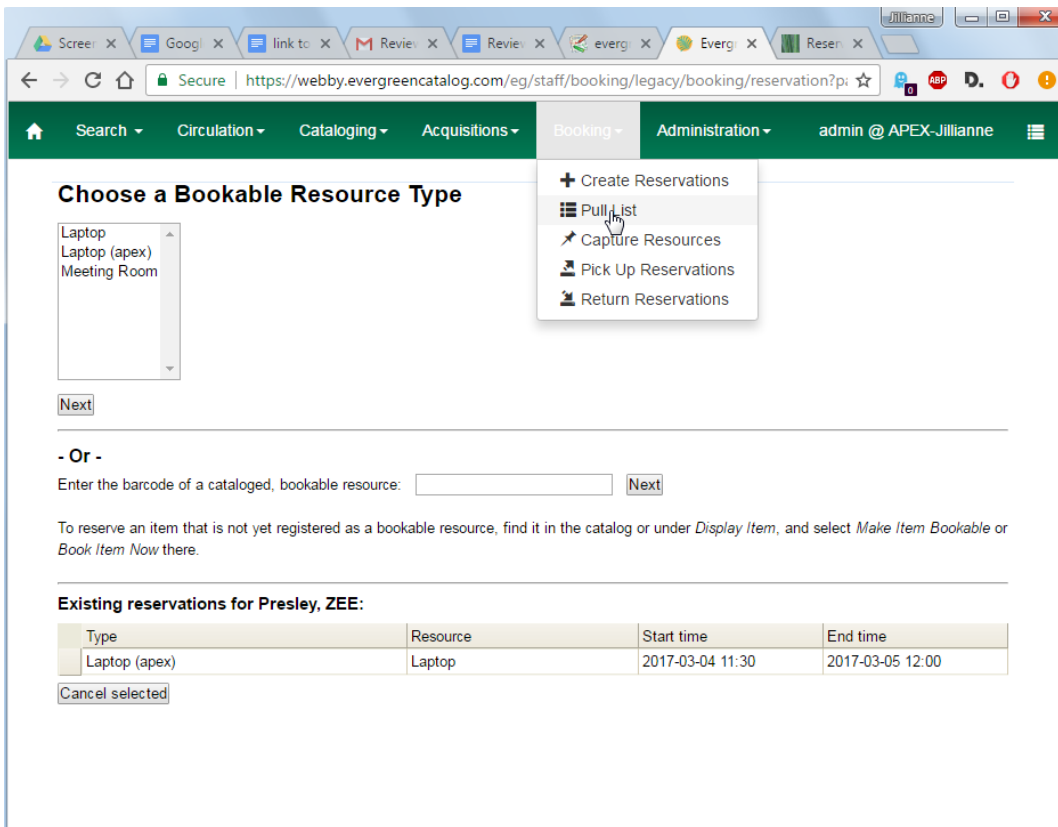


Reservations on catalogued items can be created on Item Status (F5) screen. Select the item, then Actions for Selected Items → Book Item Now.

Reservation Pull List

Reservation pull list can be generated dynamically on the Staff Client.

- 1) To create a pull list, select Booking --> Pull List.

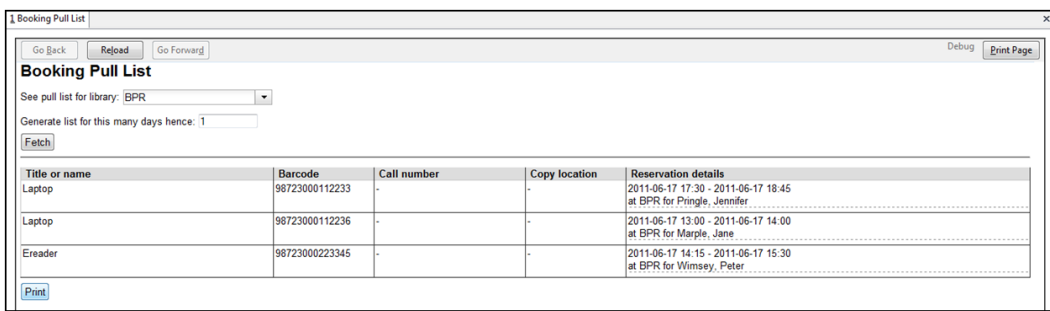


2) You can decide how many days in advance you would like to pull reserved items. Enter the number of days in the box adjacent to Generate list for this many days hence. For example, if you would like to pull items that are needed today, you can enter 1 in the box, and you will retrieve items that need to be pulled today.

3) Click Fetch to retrieve the pull list.



4) The pull list will appear. Click Print to print the pull list.



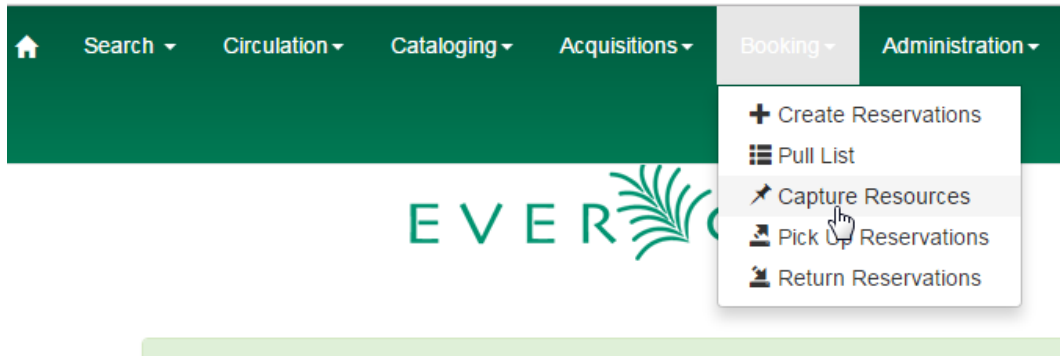
Capturing Items for Reservations

Reservations must be captured before they are ready to be picked up by the patron.

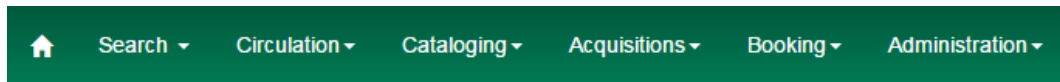


Always capture reservations in Booking Module. Check In function in Circulation does not function the same as Capture Resources.

1) In the staff client, select Booking --> Capture Resources.



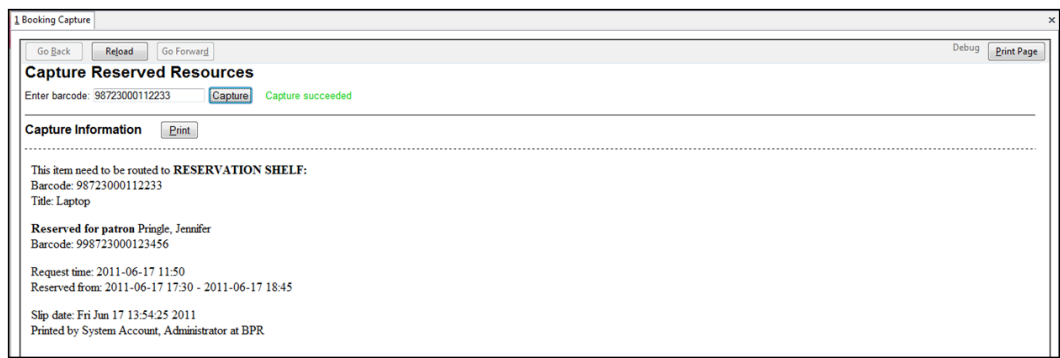
2) Scan the item barcode or type the barcode then click Capture.



Capture Reserved Resources

Enter barcode:

3) The message Capture succeeded will appear to the right. Information about the item will appear below the message. Click Print button to print a slip for the reservation.



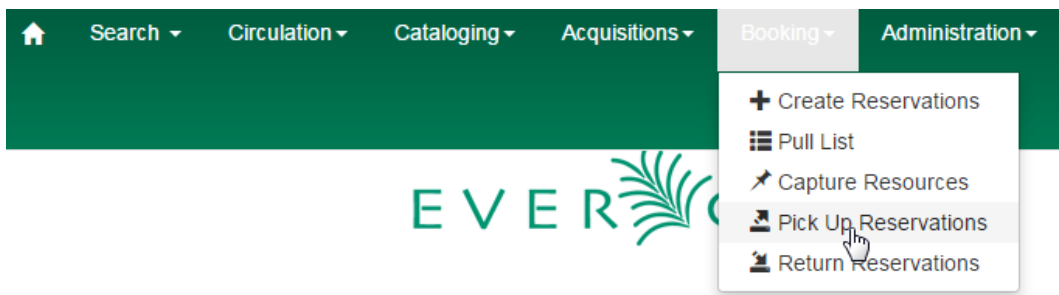
Picking Up Reservations



Always use the dedicated Booking Module interfaces for tasks related to reservations. Items that have been captured for a reservation cannot be checked out using the Check Out interface, even if the patron is the reservation recipient.

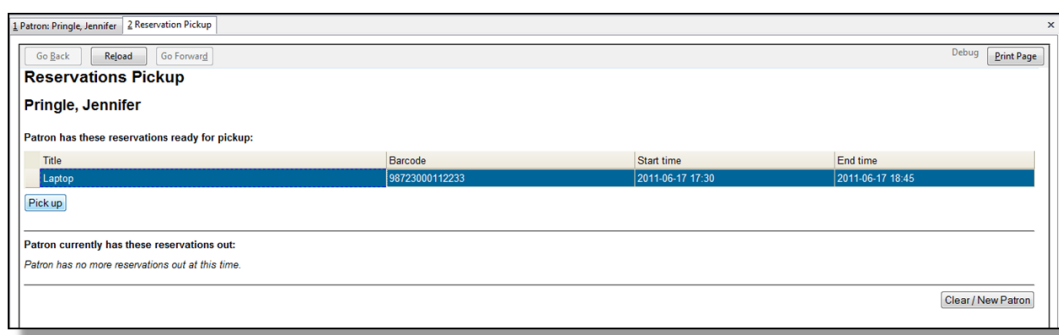
1) Ready-for-pickup reservations can be listed from Other --> Booking --> Pick Up Reservations within a patron record or Booking --> Pick Up Reservations.

The screenshot shows a web browser window displaying the Evergreen catalog staff interface. The URL is <https://webby.evergreencatalog.com/eg/staff/circ/patron/search>. The interface has a green header with navigation tabs: Search, Circulation, Cataloging, Acquisitions, Booking, and Administration. The user is logged in as 'admin @ APEX-Jillianne'. Below the header, there are buttons for 'Check Out', 'Items Out (0)', 'Holds (0 / 0)', 'Bills (\$0.00)', 'Messages', 'Edit', and 'Other'. A 'Patron Search' button is also visible. The 'Other' dropdown menu is open, showing options: 'Display Alert and Messages', 'Notes', 'Triggered Events / Notifications', 'Message Center', 'Statistical Categories', 'Group Member Details', 'User Permission Editor', 'Test Password', 'Booking: Create or Cancel Reservations', 'Booking: Pick Up Reservations', and 'Booking: Return Reservations'. The 'Booking: Pick Up Reservations' option is highlighted. The main content area shows a patron record for 'APEX' with various fields like 'Date of Birth', 'Last Activity', 'Last Updated', 'Create Date', 'Expire Date', 'Fines Owed', 'Items Out', 'Overdue', 'Long Overdue', 'Claimed Returned', 'Lost', 'Non-Cataloged', 'Holds', and 'Card'. The URL at the bottom of the browser window is https://webby.evergreencatalog.com/eg/staff/booking/legacy/booking/pickup?patron_barcode=X00311641.

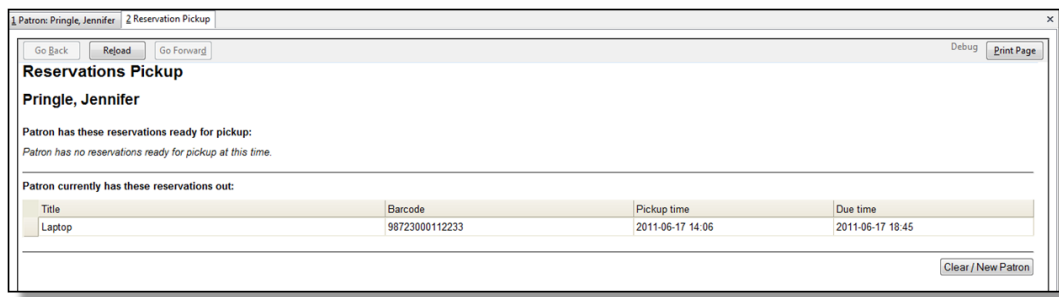


2) Scan the patron barcode if using Booking --> Pick Up Reservations.

3) The reservation(s) available for pickup will display. Select those you want to pick up and click Pick Up.



4) The screen will refresh to show that the patron has picked up the reservation(s).

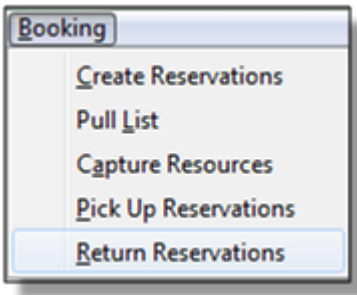


Returning Reservations

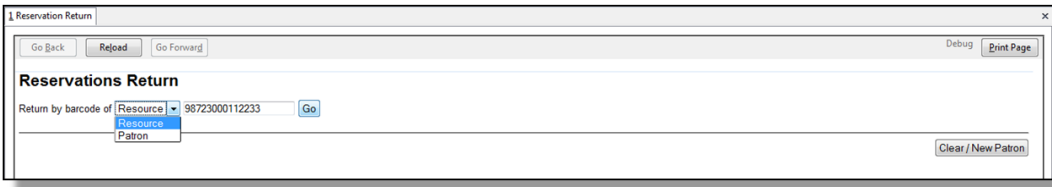


When a reserved item is brought back, staff must use the Booking Module to return the reservation.

1) To return reservations, select Booking --> Return Reservations

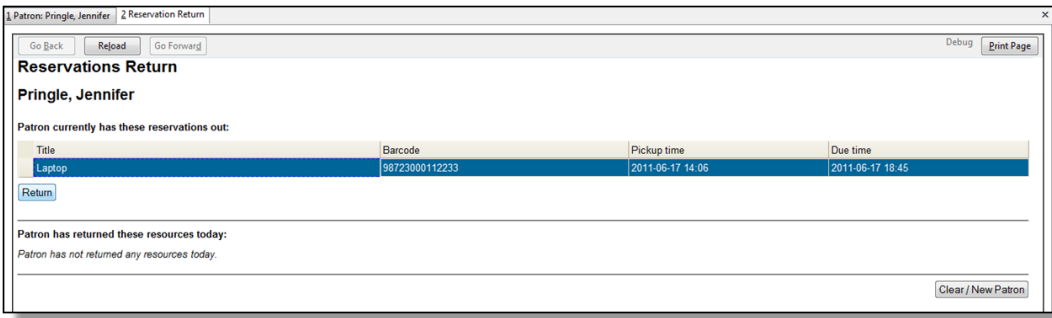


2) You can return the item by patron or item barcode. Here we choose Resource to return by item barcode. Scan or enter the barcode, and click Go.

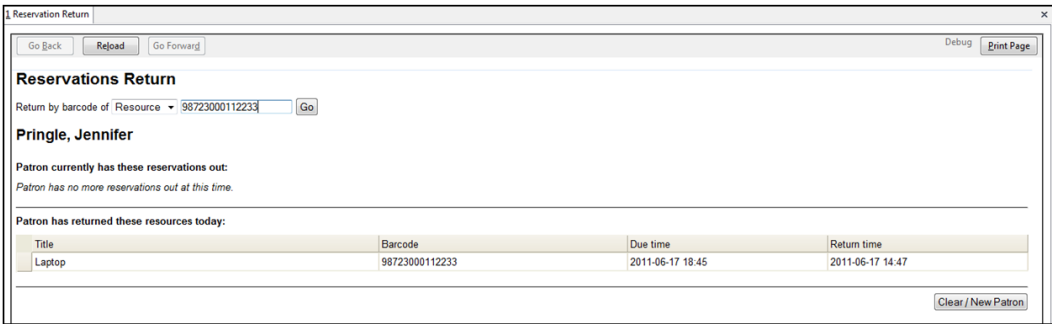


3) A pop up box will tell you that the item was returned. Click OK on the prompt.

4) If we select Patron on the above screen, after scanning the patron's barcode, reservations currently out to that patron are displayed. Highlight the reservations you want to return, and click Return.



5) The screen will refresh to show any resources that remain out and the reservations that have been returned.





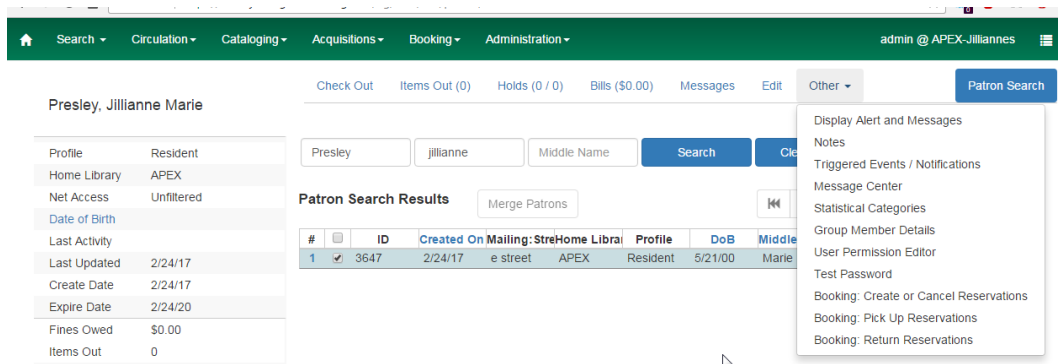
Reservations can be returned from within patron records by selecting Other --> Booking --> Return Reservations

Cancelling a Reservation

A reservation can be cancelled in a patron's record or reservation creation screen.

Cancel a reservation from the patron record

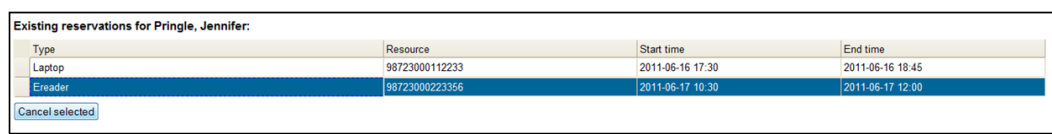
- 1) Retrieve the patron's record.
- 2) Select Other --> Booking --> Create or Cancel Reservations.



- 3) The existing reservations will appear at the bottom of the screen.



- 4) Highlight the reservation that you want to cancel. Click Cancel Selected.





Use Shift or Ctrl on keyboard and mouse click to select multiple reservations if needed.

- 5) A pop-up window will confirm the cancellation. Click OK on the prompt.
- 6) The screen will refresh, and the cancelled reservation(s) will disappear.

Existing reservations for Pringle, Jennifer:

Type	Resource	Start time	End time
Laptop	98723000112233	2011-06-16 17:30	2011-06-16 18:45

Cancel a reservation on reservation creation screen

- 1) Access the reservation creation screen by selecting Booking --> Create Reservations.
- 2) Select any Bookable Resource Type, then click Next.
- 3) Scan or type in the patron barcode in Reserve to Patron box then hit Enter.
- 4) Patron's existing reservations will display at the bottom of the screen.
- 5) Select those that you want to cancel, then click Cancel Selected.

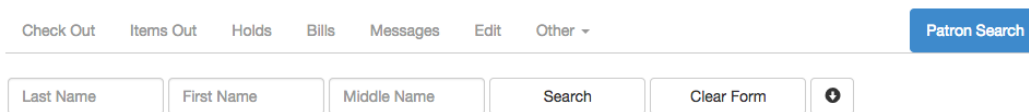
Chapter 114. Circulation - Patron Record

Searching Patrons

To search for a patron, select Search → Search for Patrons from the menu bar.

The Patron Search screen will display. It will contain options to search on the following fields:

- Last Name
- First Name
- Middle Name



The screenshot shows a navigation bar with links: Check Out, Items Out, Holds, Bills, Messages, Edit, and Other (with a dropdown arrow). On the right is a blue button labeled "Patron Search". Below the navigation bar is a search form with five input fields: "Last Name", "First Name", "Middle Name", "Search", and "Clear Form". To the right of the "Clear Form" button is a small square button with a downward-pointing arrow icon.

Next to the Clear Form button there is a button with an arrow pointing down that will display the following additional search fields:

- Barcode
- Alias
- Username
- Email
- Identification
- database ID
- Phone
- Street 1
- Street 2
- City
- State
- Postal Code

- Profile Group
- Home Library

You patrons searches may also include patrons marked “inactive” if you click on the Include Inactive? checkbox.

Check Out Items Out Holds Bills Messages Edit Other ▾

Last Name	First Name	Middle Name	Search	Clear Form	
Barcode	Alias	Username	Email	Identification	
Database ID	Phone	Street 1	Street 2	City	
State	Post Code	Profile Group ▾	SPARK ▾	<input type="checkbox"/> Include Inactive?	
DOB Year	DOB Month	DOB Day			



Tips for searching

- Search one field or combine fields for more precise results.
- Truncate search terms for more search results.
- Search ignores punctuation such as diacritics, apostrophes, hyphens and commas.










Once you have located the desired patron, click on the entry row for this patron in the results screen. A summary for this patron will display on the left hand side.

Salazar, Katherine Mary		Check Out	Items Out (0)	Holds (0 / 0)	Bills (\$0.00)	Messages	Edit	Other ▾
Profile	Circulators	s		First Name	Middle Name	Search		
Home Library	APEX	Patron Search Results						
Net Access	Filtered	#	<input type="checkbox"/>	ID	Card	Last Name	First Name	Middle Name
Last Activity		1	<input type="checkbox"/>	1632	331078	Salas	Clifton	Ricardo
Last Updated		2	<input type="checkbox"/>	2483	308956	Salas	Joseph	John
Create Date	10/19/10	3	<input type="checkbox"/>	2971	354091	Salazar	Geraldine	Susanne
Expire Date	9/26/07	4	<input checked="" type="checkbox"/>	1294	306399	Salazar	Katherine	Mary
Fines Owed	\$0.00	5	<input type="checkbox"/>	2449	350432	Salazar	Rachel	Marsha
Items Out	0	6	<input type="checkbox"/>	1201	329896	Salazar	Teresa	Kristin
Overdue	0	7	<input type="checkbox"/>	1163	332765	Salinas	Rachel	Jennifer
Long Overdue	0	8	<input type="checkbox"/>	2739	356036	Sampson	Edward	Andrew
Claimed Returned	0	9	<input type="checkbox"/>	2182	350425	Sanchez	David	
Lost	0	10	<input type="checkbox"/>	1634	303362	Sanchez	Jane	Cindy
Holds	0 / 0	11	<input type="checkbox"/>	416	310404	Sanchez	John	Joseph
Card	306399	12	<input type="checkbox"/>	2260	323804	Sanchez	Karen	Florence
Username	306399	13	<input type="checkbox"/>	2194	393436	Sanchez	Natasha	Josephine
Day Phone		14	<input type="checkbox"/>	99	320905	Sanchez	Robert	Kenneth
Evening Phone		15	<input type="checkbox"/>	1656	344985	Sanchez	Shannon	
Other Phone								

The Patron Search button on the upper right may be used to resume searching for patrons.



Registering New Patrons

To register a new patron, select Circulation → Register Patron from the menu bar. The Patron Registration form will display.

Barcode	<input type="text" value=""/>		Replace Barcode
OPAC/Staff Client User Name	<input type="text" value=""/>		
Password	<input type="text" value="3975"/>		Generate Password
Verify Password	<input type="text" value="3975"/>		
Prefix/Title	<input type="text" value=""/>		
First Name	<input type="text" value=""/>		
Middle Name	<input type="text" value=""/>		
Last Name	<input type="text" value=""/>		
Suffix	<input type="text" value=""/>		
OPAC/Staff Client Holds Alias	<input type="text" value=""/>		
Date of Birth	<input type="text" value=""/>		Example: 1/31/1970
Juvenile	<input type="checkbox"/>		
Primary Identification Type	<input type="text" value=""/>		
Primary Identification	<input type="text" value=""/>		
Parent/Guardian	<input type="text" value=""/>		
Email Address	<input type="text" value=""/>		
Daytime Phone	<input type="text" value=""/>		
Evening Phone	<input type="text" value=""/>		
Other Phone	<input type="text" value=""/>		
Home Library	<input type="text" value="General Collection"/>		
Main (Profile) Permission Group	<input type="text" value=""/>		
Privilege Expiration Date	<input type="text" value=""/>		Update Expire Date

[Show Only Required Fields](#)
[Show Suggested Fields](#)

Mandatory fields display in yellow.

Barcode	<input type="text" value=""/>	
OPAC/Staff Client User Name	<input type="text" value=""/>	

The Show Only Required Fields and Show Suggested Fields may be used to limit the options on this page.

[Show Only Required Fields](#)
[Show Suggested Fields](#)

When one of these options is selected, it is possible switch to the other limited view or to revert to the original view by selecting Show All Fields.

[Show Only Required Fields](#)

[Show All Fields](#)

When finished entering the necessary information, select Save to save the new patron record or Save & Clone to register a patron with the same address. When Save & Clone is selected, the address information is copied into the resulting patron registration screen. It is linked to the original patron. Address information may only be edited through the original record.

Hold Notification Format		Phone: <input checked="" type="checkbox"/>	Email: <input checked="" type="checkbox"/>
Address		Mailing <input checked="" type="radio"/>	Billing <input checked="" type="radio"/> <input type="button" value="X"/>
This address is owned by another user: Jenny Pals			
Type	<input type="text" value="MAILING"/>		
Postal Code	<input type="text" value="56001"/>		
Street (1)	<input type="text" value="ML 3022"/>		
Street (2)	<input type="text"/>		
City	<input type="text" value="Mankato"/>		
County	<input type="text"/>		
State	<input type="text" value="MN"/>		
Country	<input type="text" value="USA"/>		



- Requested fields may be configured in the Library Settings Editor (Admin → Local Admin → Library Settings Editor).
- Statistical categories may be created for information tracked by your library that is not in the default patron record.
- These may be configured in the Statistical Categories Editor (Admin → Local Admin → Statistical Categories Editor).
- Staff accounts may also function as patron accounts.
- You must select a Main (Profile) Permission Group before the Update Expire Date button will work, since the permission group determines the expiration date.

Patron Self-Registration

Abstract

Patron Self-Registration allows patrons to initiate registration for a library account through the OPAC. Patrons can fill out a web-based form with basic information that will be stored as a “pending

patron” in Evergreen. Library staff can review pending patrons in the staff-client and use the pre-loaded account information to create a full patron account. Pending patron accounts that are not approved within a configurable amount of time will be automatically deleted.

Patron Self-Registration

1. In the OPAC, click on the link to Request Library Card
2. Fill out the self-registration form to request a library card, and click Submit Registration.
3. Patrons will see a confirmation message: “Registration successful! Please see library staff to complete your registration.”

The screenshot shows the Evergreen library website's 'Request a Library Card' form. The header is green with the Evergreen logo and a 'My Account' button. Below the header is a navigation bar with links: Link 1, Link 2, Link 3, Link 4, and Link 5. The main content area is titled 'Request a Library Card' and contains a registration form with the following fields:

- Home Library: Example Branch 1 (dropdown menu)
- First Name: Mary *
- Middle Name: Frances
- Last Name: Nolan *
- Street Address: 240 Division Ave. *
- Street Address (2):
- City: Brooklyn *
- County:
- State: NY
- Zip Code: 11211 *
- Date of Birth: 05-08-1995
- Phone Number: 555-555-5555 (Example: 111-222-3333)
- Email Address: fnolan@example.com
- Requested Username: francienolan

At the bottom of the form are two buttons: 'Go Back' and 'Submit Registration'.

Dynamic catalog | Request Library Card | Bottom Link 4 | Bottom Link 5

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Managing Pending Patrons

1. In the staff client select Circulation → Pending Patrons.
2. Select the patron you would like to review. In this screen you have the option to Load the pending patron information to create a permanent library account.
3. To create a permanent library account for the patron, click on the patron’s row, click on the Load Patron button at the top of the screen. This will load the patron self-registration information into the main Patron Registration form.

4. Fill in the necessary patron information for your library, and click Save to create the permanent patron account.

Updating Patron Information

Retrieve the patron record as described in the section [Searching Patrons](#).

Click on Edit from the options that display at the top of the patron record.

The screenshot shows the 'Patron Edit' interface for a patron named Sarah Smith. At the top, there are navigation tabs: 'Check Out', 'Items Out (0)', 'Holds (0 / 0)', 'Bills (\$0.00)', 'Messages', 'Edit' (highlighted), and 'Other'. To the right are 'Patron Search', 'Save', and 'Save & Clone' buttons. Below the tabs, there are three filter options: 'Show: Required Fields', 'Suggested Fields', and 'All Fields'. The main form is divided into two columns. The left column lists various patron statistics: Profile (Patrons), Home Library (SL1), Net Access (Filtered), Date of Birth (1/13/1990), Last Activity, Last Updated (3/2/2018), Create Date (3/2/2018), Expire Date (3/2/2021), Fines Owed (\$0.00), Items Out (0), Overdue (0), Long Overdue (0), Claimed (0), and Returned (0). The right column contains the 'Patron Edit' form with fields for Barcode (99999303411), OPAC/Staff Client User Name (99999303411), Password, Prefix/Title, First Name (Sarah), Middle Name, Last Name (Smith), Suffix (II), OPAC/Staff Client Holds Alias, and Date of Birth (1990-01-13). There are also buttons for 'Replace Barcode', 'See All', and 'Generate Password'.

Edit information as required. When finished, select Save.

After selecting Save, the page will refresh. The edited information will be reflected in the patron summary pane.



- To quickly renew an expired patron, click the Update Expire Date button. You will need a Main (Profile) Permission Group selected for this to work, since the permission group determines the expiration date.

Renewing Library Cards

Expired patron accounts when initially retrieved – an alert stating that the “Patron account is EXPIRED.”



Patron account is EXPIRED.

Patron account has invalid addresses.

Press a navigation button above (for example, Check Out) to clear this alert.

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Navigate to the information field labeled Privilege Expiration Date. Enter a new date in this box. When you place your cursor in the Patron Expiration Date box, a calendar widget will display to help you easily navigate to the desired date.

Barcode	<input type="text" value="pals124"/>	<input type="button" value="Replace Barcode"/>	<input type="button" value="See All"/>
OPAC/Staff Client User Name	<input type="text" value="pals124"/>		
Password	<input type="password"/>	<input type="button" value="Reset Password"/>	
Verify Password	<input type="password"/>		
First Name	<input type="text"/>		
Last Name	<input type="text"/>		
Primary Identification Type	<input type="text"/>		
Home Library	<input type="text"/>		
Main (Profile) Permission Group	<input type="text"/>		
Privilege Expiration Date	<input type="text" value="Jun 13, 2011"/>	Example: Jan 31, 1970	
Internet Access Level	<input type="text" value="Filtered"/>		

Select the date using the calendar widget or key the date in manually. Click the Save button. The screen will refresh and the “expired” alerts on the account will be removed.

Lost Library Cards

Retrieve the patron record as described in the section [Searching Patrons](#).

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Next to the Barcode field, select the Replace Barcode button.

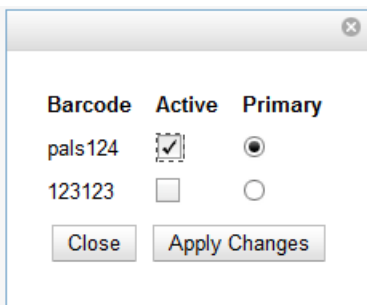


The screenshot shows a form with a label 'Barcode' on the left. To its right is a text input field containing the number '123123'. Further right is a button labeled 'Replace Barcode' which is circled in red. To the right of that button is another button labeled 'See All'.

This will clear the barcode field. Enter a new barcode and Save the record. The screen will refresh and the new barcode will display in the patron summary pane.

If a patron's barcode is mistakenly replaced, the old barcode may be reinstated. Retrieve the patron record as described in the section [Searching Patrons](#). Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Select the See All button next to the Replace Barcode button. This will display the current and past barcodes associated with this account.



The dialog box has a title bar with a close button. It contains a table with three columns: Barcode, Active, and Primary. The first row has 'pals124' in the Barcode column, a checked checkbox in the Active column, and a selected radio button in the Primary column. The second row has '123123' in the Barcode column, an unchecked checkbox in the Active column, and an unselected radio button in the Primary column. At the bottom of the dialog are two buttons: 'Close' and 'Apply Changes'.

Barcode	Active	Primary
pals124	<input checked="" type="checkbox"/>	<input checked="" type="radio"/>
123123	<input type="checkbox"/>	<input type="radio"/>

Check the box(es) for all barcodes that should be "active" for the patron. An "active" barcode may be used for circulation transactions. A patron may have more than one "active" barcode. Only one barcode may be designated "primary." The "primary" barcode displays in the patron's summary information in the Library Card field.

Once you have modified the patron barcode(s), Save the patron record. If you modified the "primary" barcode, the new primary barcode will display in the patron summary screen.

Resetting Patron's Password

A patron's password may be reset from the OPAC or through the staff client. To reset the password from the staff client, retrieve the patron record as described in the section [Searching Patrons](#).

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Select the Reset Password button next to the Password field.

Password	<input type="text"/>	<input type="button" value="Reset Password"/>
Verify Password	<input type="text"/>	



The existing password is not displayed in patron records for security reasons.

A new number will populate the Password and Verify Password text boxes. Make note of the new password and Save the patron record. The screen will refresh and the new password will be suppressed from view.



If you need to change a patron or staff account password without using the staff client, here is how you can reset it with SQL.

Connect to your Evergreen database using psql or similar tool, and retrieve and verify your admin username:

```
psql -U <user-name> -h <hostname> -d <database>
```

```
SELECT id, username, passwd from actor.usr where username = 'admin';
```

If you do not remember the username that you set, search for it in the actor.usr table, and then reset the password.

```
UPDATE actor.usr SET passwd = <password> WHERE id=<id of row to be updated>;
```

The new password will automatically be hashed.

Barring a Patron

A patron may be barred from circulation activities. To bar a patron, retrieve the patron record as described in the section [Searching Patrons](#).

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Check the box for Barred in the patron account.

Internet Access Level	<input type="text" value="Filtered"/>
Active	<input checked="" type="checkbox"/>
Barred	<input type="checkbox"/>
Is Group Lead Account	<input type="checkbox"/>
Claims-returned Count	<input type="text" value="0"/>

Save the user. The screen will refresh.



Barring a patron from one library bars that patron from all consortium member libraries.

To unbar a patron, uncheck the Barred checkbox.

Barred vs. Blocked

Barred: Stops patrons from using their library cards; alerts the staff that the patron is banned/barred from the library. The “check-out” functionality is disabled for barred patrons (NO option to override – the checkout window is unusable and the bar must be removed from the account before the patron is able to checkout items). These patrons may still log in to the OPAC to view their accounts.

Blocked: Often, these are system-generated blocks on patron accounts.

Some examples:

- Patron exceeds fine threshold
- Patron exceeds max checked out item threshold

A notice appears when a staff person tries to checkout an item to blocked patrons, but staff may be given permissions to override blocks.

Staff-Generated Messages

There are several types of messages available for staff to leave notes on patron records.

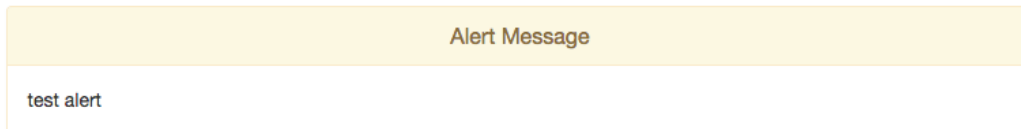
Patron Notes: These notes are added via Other → Notes in the patron record. These notes can be viewable by staff only or shared with the patron. Staff initials can be required. (See the section [Patron Notes](#) for more.)

Patron Alerts: This type of alert is added via Edit button in the patron record. There is currently no way to require staff initials for this type of alert. (See the section [Patron Alerts](#) for more.)

Staff-Generated Penalties/Messages: These messages are added via the Messages button in the patron record. They can be a note, alert or block. Staff initials can be required. (See the section [Staff-Generated Penalties/Messages](#) for more.)

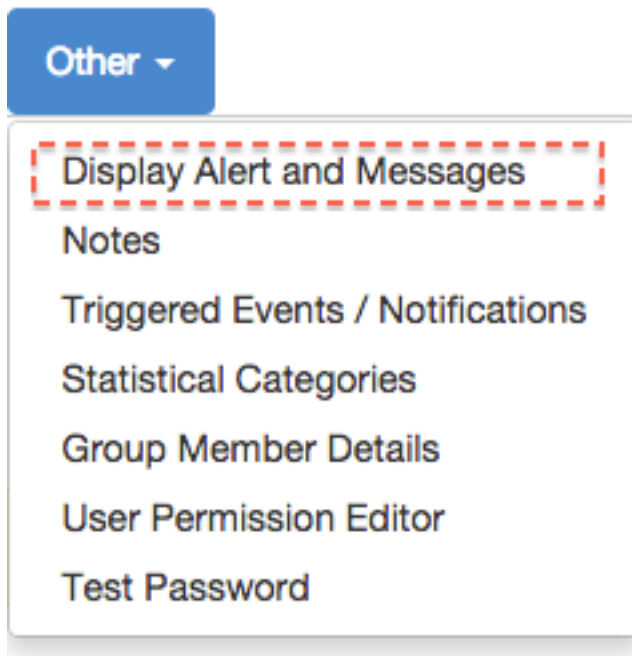
Patron Alerts

When an account has an alert on it, a Stop sign is displayed when the record is retrieved.



Navigating to an area of the patron record using the navigation buttons at the top of the record (for example, Edit or Bills) will clear the message from view.

If you wish to view these alerts after they are cleared from view, they may be retrieved. Use the Other menu to select Display Alert and Messages.



There are two types of Patron Alerts:

System-generated alerts: Once the cause is resolved (e.g. patron's account has been renewed), the message will disappear automatically.

Staff-generated alerts: Must be added and removed manually.

To add an alert to a patron account, retrieve the patron record as described in the section [Searching Patrons](#).

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Enter the alert text in the Alert Message field.

Claims Never Checked Out Count: 0

Alert Message: This is an alert message!

User Settings

Save the record. The screen will refresh and the alert will display.

To remove the alert, retrieve the patron record as described in the section [Searching Patrons](#).

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Delete the alert text in the Alert Message field.

Save the record.

The screen will refresh and the indicators for the alert will be removed from the account.

Patron Notes

Notes are strictly communicative and may be made visible to the patron via their account on the OPAC. In the OPAC, these notes display on the account summary screen in the OPAC.

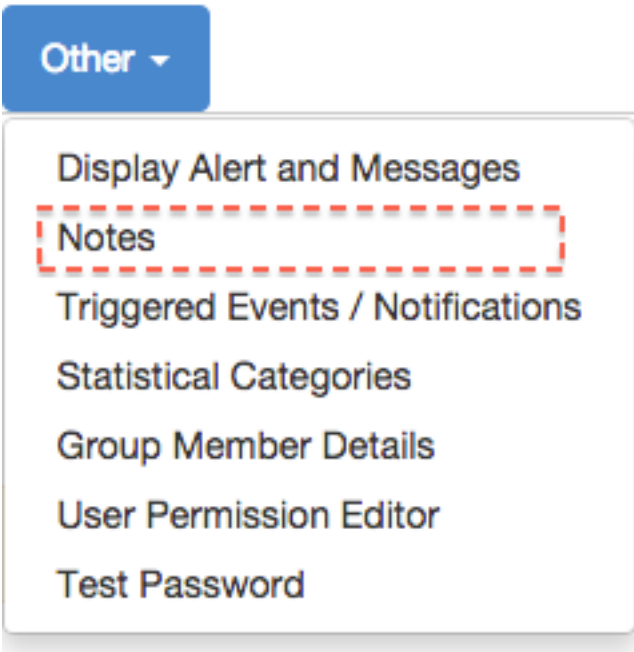
Items Currently on Hold (0)	View All
Items ready for pickup (0)	View All

Note title	Content
Test public note	test public note content


To insert or remove a note, retrieve the patron record as described in the section [Searching Patrons](#).

Open the patron record in edit mode as described in the section [Updating Patron Information](#).

Use the Other menu to navigate to Notes.



Select the Add New Note button. A Create a new note window displays.

 To add a box in the Add Note window for staff initials and require their entry, see the "Require staff initials..." settings in the [Library Settings Editor](#) section.

Enter note information.

Select the check box for Patron Visible to display the note in the OPAC.

Create a new note ×

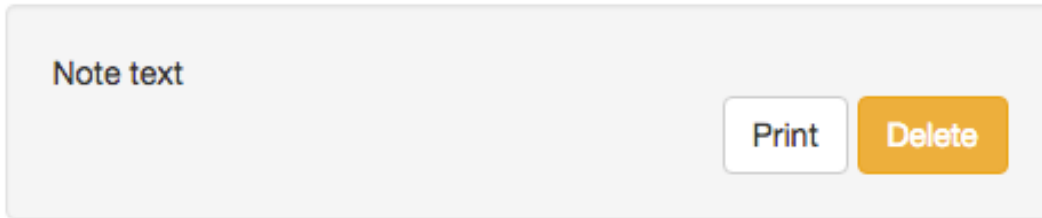
Title

Patron Visible?

Value

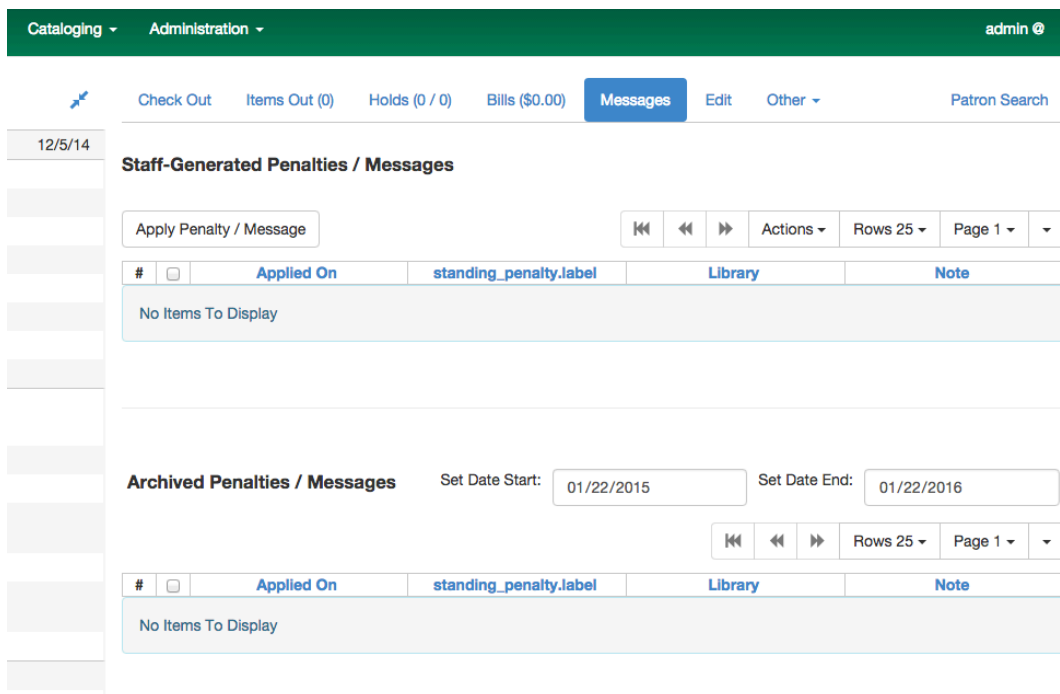
Select OK to save the note to the patron account.

To delete a note, go to Other → Notes and use the Delete button on the right of each note.



Staff-Generated Penalties/Messages

To access this feature, use the Messages button in the patron record.

A screenshot of a library system interface. At the top is a dark green navigation bar with "Cataloging" and "Administration" dropdown menus, and a user profile "admin". Below this is a secondary navigation bar with buttons for "Check Out", "Items Out (0)", "Holds (0 / 0)", "Bills (\$0.00)", "Messages" (highlighted in blue), "Edit", "Other", and "Patron Search". The main content area is titled "Staff-Generated Penalties / Messages" and includes a date "12/5/14". It features a table with columns for "#", "Applied On", "standing_penalty.label", "Library", and "Note". The table is currently empty, displaying "No Items To Display". Navigation controls include "Apply Penalty / Message", "Actions", "Rows 25", and "Page 1". Below this is a section for "Archived Penalties / Messages" with date range filters for "Set Date Start" (01/22/2015) and "Set Date End" (01/22/2016), and similar navigation controls.

Add a Message

Click Apply Penalty/Message to begin the process of adding a message to the patron.

Apply Standing Penalty / Message



Note Alert Block

Penalty Type ▾

Note...

Initials

OK Cancel

There are three options: Notes, Alerts, Blocks

- **Note:** This will create a non-blocking, non-alerting note visible to staff. Staff can view the message by clicking the Messages button on the patron record. (Notes created in this fashion will not display via Other → Notes, and cannot be shared with the patron. See the [Patron Notes](#) section for notes which can be shared with the patron.)
- **Alert:** This will create a non-blocking alert which appears when the patron record is first retrieved. The alert will cause the patron name to display in red, rather than black, text. Alerts may be viewed by clicking the Messages button on the patron record or by selecting Other → Display Alerts and Messages.
- **Block:** This will create a blocking alert which appears when the patron record is first retrieved, and which behaves much as the non-blocking alert described previously. The patron will be also blocked from circulation, holds and renewals until the block is cleared by staff.

After selecting the type of message to create, enter the message body into the box. If Staff Initials are required, they must be entered into the Initials box before the message can be added. Otherwise, fill in the optional Initials box and click OK

The message should now be visible in the Staff-Generated Penalties/Messages list. If a blocking or non-blocking alert, the message will also display immediately when the patron record is retrieved.

Staff-Generated Penalties / Messages

Apply Penalty / Message

⏪ ⏩ Actions ▾ Rows 25 ▾ Page 1 ▾

#	<input type="checkbox"/>	Applied On	standing_penalty.label	Library	Note
1	<input type="checkbox"/>	1/22/16	Alerting Note, no blocks	APEX	This is an alert [ys]
2	<input type="checkbox"/>	1/22/16	Alerting block on Circ, Hold and R...	APEX	This is a block [YS]
3	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX	This is a note [YS]

Modify a Message

Messages can be edited by staff after they are created.

Staff-Generated Penalties / Messages

Apply Penalty / Message

#	<input type="checkbox"/>	Applied On	standing_penalty.label		Note
1	<input type="checkbox"/>	1/22/16	Alerting Note, no blocks	APEX	This is an alert [YS]
2	<input type="checkbox"/>	1/22/16	Alerting block on Circ, Hold and R...	APEX	This is a block [YS]
3	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX	This is a note [YS]

Navigation: Rows 25, Page 1

Actions menu:

- Remove Penalty / Message
- Modify Penalty / Message
- Archive Penalty / Message

Click to select the message to be modified, then click Actions → Modify Penalty/Message. This menu can also be accessed by right-clicking in the message area.

Apply Standing Penalty / Message

Note Alert Block

Penalty Type

This is an alert [YS]
No longer an alert

YS OK Cancel

To change the type of message, click on Note, Alert, Block to select the new type. Edit or add new text in the message body. Enter Staff Initials into the Initials box (may be required.) and click OK to submit the alterations.

Staff-Generated Penalties / Messages

Apply Penalty / Message

#	<input type="checkbox"/>	Applied On	standing_penalty.label	Library	Note
1	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX	This is an alert [YS] No longer an ...
2	<input type="checkbox"/>	1/22/16	Alerting block on Circ, Hold and R...	APEX	This is a block [YS]
3	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX	This is a note [YS]

Navigation: Rows 25, Page 1

Archive a Message

Messages which are no longer current can be archived by staff. This action will remove any alerts or blocks associated with the message, but retains the information contained there for future reference.

Staff-Generated Penalties / Messages

Apply Penalty / Message

#	<input type="checkbox"/>	Applied On	standing_penalty.label			Note
1	<input type="checkbox"/>	1/22/16	Alerting Note, no blocks	APEX		This is an alert [YS]
2	<input type="checkbox"/>	1/22/16	Alerting block on Circ, Hold and R...	APEX		This is a block [YS]
3	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX		This is a note [YS]

Navigation: Rows 25, Page 1

Actions menu:

- Remove Penalty / Message
- Modify Penalty / Message
- Archive Penalty / Message

Click to select the message to be archived, then click Actions → Archive Penalty/Message. This menu can also be accessed by right-clicking in the message area.

Archived Penalties / Messages

Set Date Start: 01/22/2015 Set Date End: 01/22/2016

Navigation: Rows 25, Page 1

#	<input type="checkbox"/>	Applied On	standing_penalty.label	Library	Note
1	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX	This is a note [YS]

Archived messages will be shown in the section labelled Archived Penalties/Messages. To view messages, click Retrieve Archived Penalties. By default, messages archived within the past year will be retrieved. To retrieve messages from earlier dates, change the start date to the desired date before clicking Retrieve Archived Penalties.

Remove a Message

Messages which are no longer current can be removed by staff. This action removes any alerts or blocks associated with the message and deletes the information from the system.

Staff-Generated Penalties / Messages

Apply Penalty / Message

#	<input type="checkbox"/>	Applied On	standing_penalty.label			Note
1	<input type="checkbox"/>	1/22/16	Alerting Note, no blocks	APEX		This is an alert [YS]
2	<input type="checkbox"/>	1/22/16	Alerting block on Circ, Hold and R...	APEX		This is a block [YS]
3	<input type="checkbox"/>	1/22/16	Note, no blocks	APEX		This is a note [YS]

Navigation: Rows 25, Page 1

Actions menu:

- Remove Penalty / Message
- Modify Penalty / Message
- Archive Penalty / Message

Click to select the message to be removed, then click Actions → Remove Penalty/Message. This menu can also be accessed by right-clicking in the message area.

Chapter 115. Triggered Events and Notices

Improvements to the Triggered Events interface enables you to easily filter, sort, and print triggered events from the patron's account or an item's details. This feature is especially useful when tracking notice completion from a patron's account.

Access and View

You can access Triggered Events from two Evergreen interfaces: a patron's account or an item's details.

To access this interface in the patron's account, open the patron's record and click Other → Triggered Events.

To access this interface from the item's details, enter the item barcode into the Item Status screen, and click Actions for Selected Items → Triggered Events.

Information about the patron, the item, and the triggered event appear in the center of the screen. Add or delete columns to the display by right clicking on any column. The Column Picker appears in a pop up box and enables you to select the columns that you want to display.

Triggered Event Log (patron specific)

Show events at and below:

✓	#	Event Name	Reactor	Event Run Time	Column	Display
<input type="checkbox"/>	1	Hold Ready for Pickup Email Notification	ProcessTemp	2012-07-27T14:...	✓	<input type="checkbox"/>
<input type="checkbox"/>	2	Hold Ready for Pickup SMS Notification	SendSMS	2012-07-27T14:...	#	<input checked="" type="checkbox"/>
<input type="checkbox"/>	3	Hold Ready for Pickup Email Notification	ProcessTemp	2012-07-27T14:...	Event Name	<input checked="" type="checkbox"/>
		Hold Ready			Reactor	<input checked="" type="checkbox"/>
					Event Run Time	<input checked="" type="checkbox"/>
					Event State	<input checked="" type="checkbox"/>
					Target Circulation - Copy Barcode	<input checked="" type="checkbox"/>
					Target Circulation - Title	<input checked="" type="checkbox"/>
					Target Circulation - Author	<input checked="" type="checkbox"/>

Filter

The triggered events that display are controlled by the filters on the right side of the screen. By default, Evergreen displays completed circulation events. Notice that the default filters display Event State is Complete and Core Type is Circ.

To view completed hold-related events, such as hold capture or hold notice completion, choose Event State is Complete and Core Type is Hold from the drop down menu.

You can also use the Event State filter to view circons and holds that are pending or have an error.

Add and delete filters to customize the list of triggered events that displays. To add another filter, click Add Row. To delete a filter, click the red X adjacent to a row.

icific

Event Run Time	Event State	Target Circulation - Copy Barcode	Target Circulation - Title	Target Circulation - Author	Target Circulation - Patron Barcode	Target Hold - Patron Barcode
2012-07-27T14:00:00	complete					
2012-07-27T14:00:00	complete					

Event State	is	Complete	X
Core Type	is	Hold	X
Add Row		Apply	

Sort

You can sort your results by clicking the column name.

Triggered Event Log (patron specific)

Show events at and below: ▼

✓	#	Event Name	Reactor	Event Run Time	Event State
<input type="checkbox"/>	1	Hold Ready for Pickup Email Notification	ProcessTemp	2012-07-27T14:00:00	complete
<input type="checkbox"/>	2	Hold Ready for Pickup SMS Notification	SendSMS	2012-07-27T14:00:00	complete
<input type="checkbox"/>	3	Hold Ready for Pickup Email Notification	ProcessTemp	2012-07-27T14:00:00	complete

Print

You can select the events that you want to print, or you can print all events. To print selected events, check the boxes adjacent to the events that you want to print, and click Print Selected Events. To print all events, simply click Print All Events.

Reset

If the triggered event does not complete or the notice is not sent and the trigger needs to be run again, then select the event, and click Reset Selected Events.

Chapter 116. Offline Transactions

Evergreen's Standalone Interface / Offline Interface is designed to log transactions during network outage, which can be uploaded and processed once network operations are restored.

The terms Offline Interface and Standalone Interface mean the same thing: a separate program to handle simple circulation tasks while the network is down.

To access the Offline Interface, navigate to the Staff Client login screen and click Standalone Interface. The Evergreen Standalone Interface window opens.

Patron Registration

Patron registration on the Evergreen Offline Interface records the minimum patron information necessary to register a new patron.

All of the fields, except for Line 2 of Billing Address, on the Patron Registration screen are required. If your library does not record information for any field, you need to work out a standard fake value for it, for example, **1900-01-01** for Date of Birth.

The account password is automatically generated. Patrons can access their account with the password after the offline transactions are uploaded and processed.

To register a patron:

1. Click Register Patron on the top menu bar. The Patron Registration window opens.
2. Fill in the form with patron information, using the drop down list if available.
3. Click Save patron registration. A confirmation dialog opens.
4. Click OK to finish registering the patron.

Checking Out Items

To circulate items from the Evergreen standalone interface:

1. Click Check Out on the top menu bar. The Standalone Check Out screen opens.
2. Ensure that the date on the left-hand side of the menu bar is correct.
3. Enter the patron's library card barcode in the Enter the patron's barcode field by scanning or typing the barcode.
4. Ensure that the due date is correct in the Enter the item due date field. You may enter a different due date manually, or select a different duration from the dropdown list to select a relative due date based on the loan period.

5. Check out items:

- For cataloged items, scan each item's barcode in Enter the item barcode field. The barcode appears on the right side of the screen.
- For non-cataloged items:
 - i. Click Choose a non-barcode option to select a non-catalogued category from the drop-down list.
 - ii. Enter the number of items you want to check out, then click OK on the prompt window.

6. Scan all items, changing the due date if necessary.

7. To print a receipt, select the Print receipt? checkbox.

8. Click Save these transactions.

The default dates are based on your computer settings.

Pre-catalogued item circulation is not available on Offline Interface. If an existing pre-cat barcode happens to be used, it is checked out with the previous author and title. If a new pre-cat barcode is attempted, an error of **ASSET NOT FOUND** (item not found) is returned upon processing offline transactions.

Renew

To renew an item, you must know the item's barcode number. The patron's barcode is optional.

To renew items from the Evergreen standalone interface:

1. Click Renew on the top menu bar.



The Renew window is very similar to the Check Out window. The differences are that a patron's barcode is optional on the Renew window, and the non-barcode option is not available on the Renew window, as non-barcode items can not be renewed.

2. Ensure that the date on the left-hand side of the menu bar is correct.

3. (Optional): Enter the patron's library card barcode in the Enter the patron's barcode field by scanning or typing the barcode.

4. Ensure that the due date is correct in the Enter the item due date field. You may enter a different due date manually, or select a different duration from the dropdown list to select a relative due date based on the loan period.

5. For each item to be renewed, enter the item's barcode in the Enter the item barcode field. The barcode appears on the right side of the screen.

6. To print a receipt, select the Print receipt? checkbox.
7. Click Save these transactions.

In-house Use

To record in-house use transactions from the Evergreen standalone interface:

1. Click In House Use on the top menu bar.
2. Ensure the date is correct.
3. Enter the number of uses to record for the item in the Enter the number of uses of the item field.
4. Enter the item barcode number in the Enter the item barcode field.
5. Repeat the previous 2 steps until all items have been scanned.
6. To print a receipt, select the Print receipt? checkbox.
7. Click Save these transactions.

Check In

To check in items from the Evergreen standalone interface:

1. Click Check In on the top menu bar. The Check In screen opens.
2. Ensure the date is correct.
3. For each item you want to check in, enter the item's barcode in the Enter item barcode field. The number is displayed on the right side of the screen.
4. To print a receipt, select the Print receipt? checkbox.
5. Click Save these transactions.



Without access to Evergreen database, items on holds or with special status will not be captured in offline mode.

Uploading Offline Transactions

Once you are able to connect to the server, you need to upload the offline transactions. To avoid confusion for patrons and in the system, you should upload the offline transactions as soon as possible.

Once you can connect to the server, there are 3 steps to uploading offline transactions:

1. Create a session: to be done by local system administrators at an administration workstation.
2. Upload transactions to a session: to be done by circulation staff at circulation workstations.
3. Process the uploaded transactions: to be done by local system administrators at an administration workstation.

Once network connectivity has been restored, a local system administrator must create an offline transaction session. Then, staff can upload transactions from each of the workstations used in offline circulation mode to that session. Once all of the branch workstations have uploaded their transactions to the session, the manager processes all the transactions from all the workstations at once.

Uploading transactions to the session does not put the transactions into the Evergreen database. The transactions will not be sent to the Evergreen database until the manager processes the session.

Creating an Offline Session

In the Evergreen staff client:

1. Log into Evergreen using an account with local system administrator privileges.
2. Select Admin (-) → Offline Transaction Management from the menu. The Offline Transactions screen opens. Previously created sessions are listed in the Offline Sessions section.
3. In the upper Offline Sessions section, click Create to create a new session.
4. Enter a name for the session, like **Internet Down 2012-12-02**. Click OK.
5. In the Offline Sessions section, highlight the session you created. An Uploaded Transactions section appears in the bottom of the screen. Initially, this section is empty.
6. Inform library staff that the session has been created and tell them the name of the session.

Uploading Workstation Transactions to a Session

Wait until the local system administrator has created a session and told you that it's ready for your upload. There may be several sessions shown on the Offline Transaction Management screen, so you will need the name of the correct session from your local system administrator.

Each workstation used to perform offline circulation during the outage must upload its transactions to the offline transaction session.

To upload offline transaction from a workstation to a session, perform the following steps in the Evergreen staff client:

1. Log into Evergreen with your regular username and password.
2. Select Admin (-) → Offline Transaction Management from the menu. The Offline Transactions screen opens. You should see at least one session in the Offline Sessions section. You may also see older sessions.

3. In the upper Offline Sessions section, highlight the correct session, then click Upload. The transactions are transferred to the Evergreen server.
4. When the transactions have been uploaded, select the session in the Offline Sessions section. The value in the Upload Count column has increased by 1 and your workstation is now listed in the Uploaded Transactions section.
5. Inform your local system administrator that your transaction has been uploaded to the session.

Processing the Transactions

When all of the participating staff workstations have uploaded their transactions to the offline session, the workstation names are listed in the Uploaded Transactions section. To process the offline transactions and make them live on the Evergreen server:

1. Log into Evergreen using an account with local system administrator privileges.
2. Select Admin (-) → Offline Transaction Management from the menu. The Offline Transactions screen opens. Previously created sessions are listed in the Offline Sessions section.
3. Highlight the correct session and, if necessary, click Refresh to verify all the participating workstations have uploaded their transactions to your session.
4. Click Process. The processing may take some time to complete, depending on how many transactions you have done. Click Refresh to see the updated status of the processing step. Processing is complete when the Processing? column shows **Completed**.

The number in the Transactions Processed column is equal to the number of items checked out or checked in. For example, 5 transactions processed could mean that:

- 5 items were checked out, or
- 3 items were checked in and 2 items were checked out, or
- 5 items were checked in.

Exceptions

Exceptions are problems that were encountered during processing. For example, a mis-scanned patron barcode, an open circulation, or an item that was not checked in before it was checked out to another patron would be listed as an exception. Those transactions causing exceptions may not be loaded into Evergreen database. Staff should examine the exceptions and take necessary action.

These are a few notes about possible exceptions. It is not an all-inclusive list.

- Checking out a DVD with the wrong date (leaving due date set at +2 weeks instead of +1 week) does not cause an exception.
- Overdue books are not flagged as exceptions.
- Checking out a reference book does not cause an exception.

- Checking out an item belonging to another library does not cause an exception.
- The Standalone Interface does not recognize books on hold, so no exceptions will be generated when matching items are checked in or checked out.
- The Standalone Interface can recognize blocked, barred, and expired patrons, as well as lost cards, if you have recently run an Admin (-) → Download Offline Patron List action on the workstation on which you are using the Standalone Interface. You will get an error message indicating the patron status from within the Standalone Interface at check-out time.

Common error messages

- **ROUTE-ITEM** - Indicates the book should be routed to another branch or library system. You'll need to find the book and re-check it in (online) to get the Transit Slip to print.
- **COPY_STATUS_LOST** - Indicates a book previously marked as lost was found and checked in.
- **CIRC_CLAIMS_RETURNED** - Indicates a book previously marked as claimed-returned was found and checked in.
- **ASSET_COPY_NOT_FOUND** - Indicates the item barcode was mis-scanned/mis-typed.
- **ACTOR_CARD_NOT_FOUND** - Indicates the patron's library barcode was mis-scanned/ mis-typed.
- **OPEN_CIRCULATION_EXISTS** - Indicates a book was checked out that had never been checked in.
- **MAX_RENEWALS_REACHED** - Indicates the item has already been renewed the maximum times allowed (or it's a video/DVD).

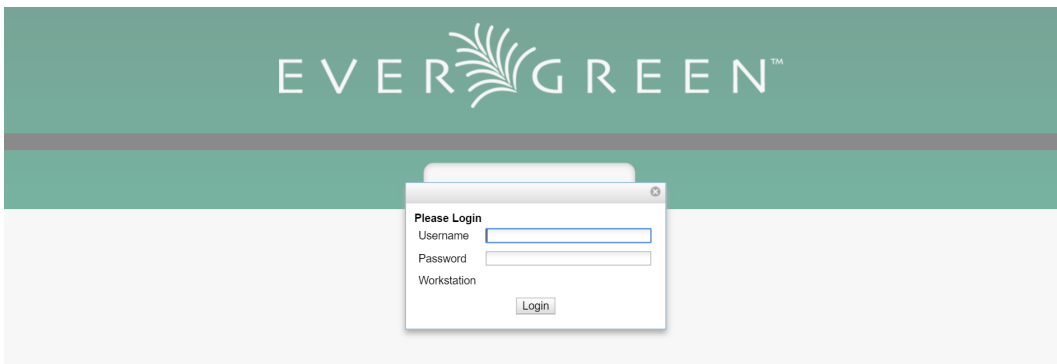
Chapter 117. Self checkout

Evergreen includes a self check interface designed for libraries that simply want to record item circulation without worrying about security mechanisms like magnetic strips or RFID tags.

Initializing the self check

The self check interface runs in a web browser. Before patrons can use the self check station, a staff member must initialize the interface by logging in.

1. Open your self check interface page in a web browser. By default, the URL is **https://[hostname]/eg/circ/selfcheck/main**, where [hostname] represents the host name of your Evergreen web server.
2. Log in with a staff account with circulation permissions.



Setting library hours of operation

When the self check prints a receipt, the default template includes the library's hours of operation in the receipt. If the library has no configured hours of operation, the attempt to print a receipt fails and the browser hangs.

Configuring self check behavior

Several library settings control the behavior of the self check:

- **Audio Alerts:** Plays sounds when events occur in the self check. These events are defined in the **templates/circ/selfcheck/audio_config.tt2** template. To use the default sounds, you could run the following command from your Evergreen server as the root user (assuming that **/openils/** is your install prefix):

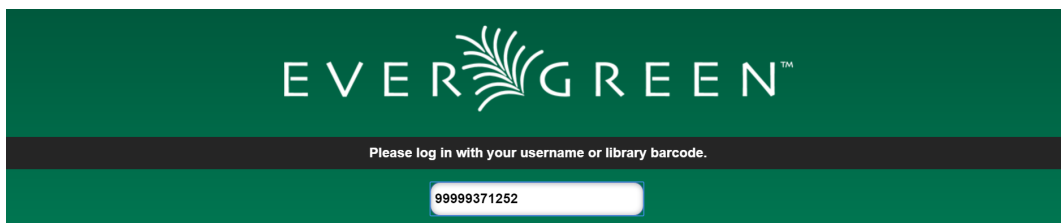
```
cp -r /openils/var/web/xul/server/skin/media/audio /openils/var/web/.
```

- **Block copy checkout status:** Prevent the staff user's permission override from enabling patrons to check out items that they would not normally be able to check out, such as the "On reservation shelf" status. The status IDs are found in the **config.copy_status** database table.

- Patron Login Timeout: Automatically logs the patron out of the self check after a certain period of inactivity. NOT CURRENTLY SUPPORTED
- Pop-up alert for errors: In addition to displaying an alert message on the screen, this setting raises patron awareness of possible problems by raising an alert box that the patron must dismiss before they can check out another item.
- Require Patron Password: By default, users can enter either their user name or barcode, without having to enter their password, to access their account. This setting requires patrons to enter their password for additional security.
- Workstation Required: If set, the URL must either include a **?ws=[workstation]** parameter, where [workstation] is the name of a registered Evergreen workstation, or the staff member must register a new workstation when they login. The workstation parameter ensures that check outs are recorded as occurring at the correct library.

Basic Check Out

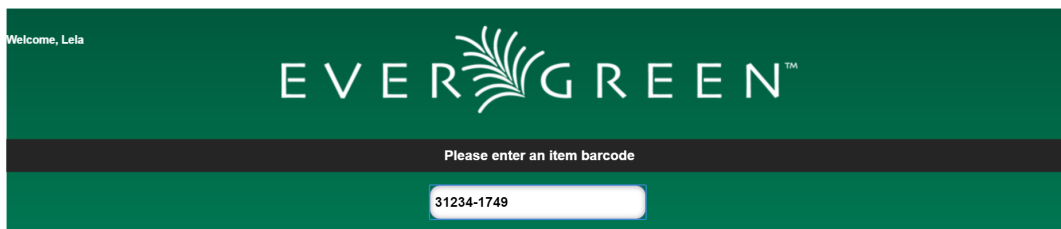
1. Patron scans their barcode.



2. Optional Patron enters their account password.



3. Patron scans the barcodes for their items OR Patron places items, one at a time, on the RFID pad.



4. Items will be listed below with a check out confirmation message.


Welcome, Lela

EVERGREEN™

Please enter an item barcode

Checkout of item 31234-1749 succeeded

[Print List](#) [Home](#) [Logout](#)
[Logout \(No Receipt\)](#)

Barcode	Title	Author	Due Date	Type
 31234-1749	Harry Potter film wizardry	Sibley, Brian.	5/5/16	Checkout

Items Checked Out
Total items this session: 1.
Total items on account: 8.

[View Items Out](#)

5. If a check out fails a message will advise patrons.

Welcome, Lela

EVERGREEN™

Please enter an item barcode

Unable to check out item 31234-2053. Please see staff.

6. Patron clicks Logout to print a checkout receipt and logout. OR Patron clicks Logout (No Receipt) to logout with no receipt.

Welcome, Lela

EVERGREEN™

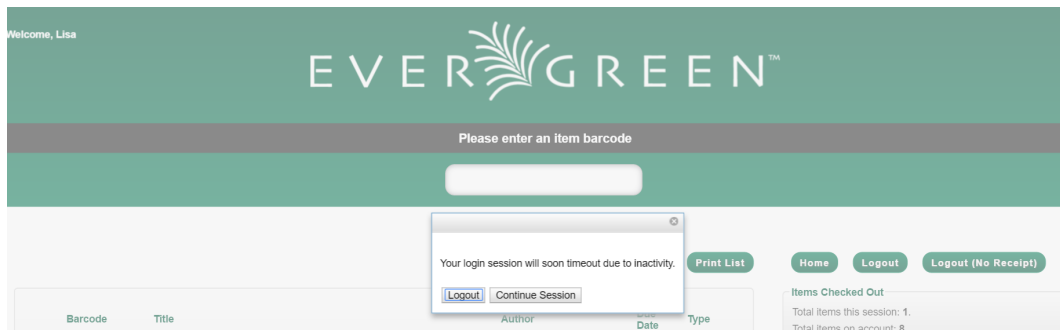
Please enter an item barcode

Unable to check out item 31234-2053. Please see staff.

[Print List](#) [Home](#) [Logout](#) [Logout \(No Receipt\)](#)



If the patron forgets to logout the system will automatically log out after the time period specified in the library setting Patron Login Timeout (in seconds). An inactivity pop-up will appear to warn patrons 20 seconds before logging out.



View Items Out

1. Patrons are able to view the items they currently have checked out by clicking View Items Out

Home Logout Logout (No Receipt)


Items Checked Out
Total items this session: 1.
Total items on account: 7.
View Items Out

Holds
You have 0 item(s) ready for pickup.
You have 4 total holds.
View Holds

Fines
Total fines on account: \$4.70.
View Details

2. The items currently checked out will display with their due dates. Using the Print List button patrons can print out a receipt listing all of the items they currently have checked out.

Print List

Barcode	Title	Author	Due Date	Type
 G880410001542	Harry Potter and the goblet of fire	Rowling, J. K.	4/28/16	Checkout

View Holds

1. Patrons are able to view their current holds by clicking View Holds

The screenshot shows a user interface with three navigation buttons at the top: "Home", "Logout", and "Logout (No Receipt)". Below these are three summary sections:

- Items Checked Out:** Shows "Total items this session: 1." and "Total items on account: 7." with a "View Items Out" button.
- Holds:** Shows "You have 0 item(s) ready for pickup." and "You have 4 total holds." with a "View Holds" button circled in red.
- Fines:** Shows "Total fines on account: \$4.70." with a "View Details" button.

2. Items currently on hold display. Patrons can also see which, if any, items are ready for pickup.

Using the Print List button patrons can print out a receipt listing all of the items they currently have on hold.

The screenshot shows a "View Holds" page with a "Print List" button at the top right. Below the button is a table with the following data:

Title	Author	Status
Antiquités grecques : or, tableau des moeurs, usages et institutions des grecs ; dans lequel on expose tout ce qui a rapport a leurs religion, gouvernement, lois, magistratures...agriculture, etc. etc	Robinson, John	#1 in line with 9 copies
Correspondance inédite du Prince de Talleyrand et du Roi Louis XVIII, pendant le Congrès de Vienne, publiée sur les manuscrits conservés au Dépôt des Affaires Étrangères	Talleyrand, Charles Maurice de	#1 in line with 9 copies

View Fines

1. Patrons are able to view the fines they currently owe by clicking View Details

[Home](#)[Logout](#)[Logout \(No Receipt\)](#)

Items Checked Out

Total items this session: 1.

Total items on account: 7.

[View Items Out](#)

Holds

You have 0 item(s) ready for pickup.

You have 4 total holds.

[View Holds](#)

Fines

Total fines on account: \$4.70.

[View Details](#)

2. Current fines owed by the patron display.

[Print List](#)

Selected total: \$4.70

<input checked="" type="checkbox"/>	Type	Details	Total Billed	Total Paid	Balance Owed
<input checked="" type="checkbox"/>	circulation	Le concerto 12345	5.00	0.30	4.70

Chapter 118. RFID Product Integration

Evergreen Integration with PV Supa GoodStuff RFID Reader

This feature enables the Evergreen staff client to "talk" to the PV Supa Goodstuff RFID reader so that libraries can utilize PV Supa Goodstuff's RFID technology when checking items in and out.

Administration

To use PV Supa Goodstuff, you must add code to the Admin module that Evergreen can use to identify the reader.

1. Click Admin → Workstation Admin → Server Add-ons.
2. Enter the code, `pv_supa_goodstuff`, to identify PV Supa Goodstuff in the Active Server Add-Ons field.
3. Click Update Active Add-Ons.
4. Look at the next field, Add-on Preferences. Enter information in the GoodStuff tab.
5. Check the Enabled check box to enable this add-on.
6. Enter the IP/Hostname of the hardware.
7. Enter the port.
8. Click Update.

Using RFID at the Circulation Desk

RFID functionality is available in the Circulation module via the check-out interface, the check-out function in the patron account, and the check-in interface.

From the Check-Out interface (F1):

1. Check the RFID checkbox if your library cards have embedded RFID chips that Evergreen can use to retrieve the patron barcode. RFID check boxes appear only if appropriate code words have been added in the Server Add-Ons.
2. Place the patron's library card and/or item(s) on the PV Supa Goodstuff Reader. Evergreen will take you to the patron's account. If item(s) with RFID chips have also been placed on the reader, and the corresponding checkbox is checked, then Evergreen will scan the item(s) into the patron's account.



RFID check boxes are sticky, so if you have checked an RFID box once, then it will continue to be checked when you re-open the interface.



If you do not use RFID chips to retrieve patrons' accounts, then leave the RFID box unchecked. You can scan a patron barcode with a barcode scanner, and Evergreen will retrieve the patron data without using the RFID feature. From the patron's account, Evergreen can check out items using the RFID reader. See the next section for details.

1. Click Done to complete the transaction, or close the window.

From the Check-Out tab in a patron's record:

1. Open a patron's record, and stack the item(s) to be checked out on the RFID reader. To retrieve item data using the RFID chips embedded in the item barcodes, click the RFID check box at the bottom of the patron account. When this box is checked, Evergreen will read the item(s) that are stacked on the RFID reader, check out the item(s), and disable the security bits.
2. Click Done to complete the transaction, or close the window.



Evergreen pop-up messages, such as an Alert Message or Item Already Circulating may appear during transactions. Two new dialogs specific to PV Supa Goodstuff may also appear. One dialog, Incomplete Sets, allows you to continue checking out an incomplete set, such as a CD collection, or you can ask the hardware to rescan the RFID tags to look again for a full set. The second dialog allows you to manually attempt to set or unset the security bit on an item if the automatic attempt failed.

From the Check In interface:

1. Click the RFID check box.
2. Place the items on the PV Supa Goodstuff Reader.
3. Evergreen will tell the reader to check in the item(s) and enable the security bits. The item(s) appear in a list on the screen.

Part XII. Reports

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Chapter 119. Introduction

Learn how to create and use reports in Evergreen.

Chapter 120. Starting and Stopping the Reporter Daemon

Before you can view reports, the Evergreen administrator must start the reporter daemon from the command line of the Evergreen server.

The reporter daemon periodically checks for requests for new reports or scheduled reports and gets them running.

Starting the Reporter Daemon

To start the reporter daemon, run the following command as the opensrf user:

```
c_lark-kent.pl --daemon
```

You can also specify other options:

- `sleep=interval`: number of seconds to sleep between checks for new reports to run; defaults to 10
- `lockfile=filename`: where to place the lockfile for the process; defaults to `/tmp/reporter-LOCK`
- `concurrency=integer`: number of reporter daemon processes to run; defaults to 1
- `bootstrap=filename`: OpenSRF bootstrap configuration file; defaults to `/openils/conf/opensrf_core.xml`



The `open-ils.reporter` process must be running and enabled on the gateway before the reporter daemon can be started.

Remember that if the server is restarted, the reporter daemon will need to be restarted before you can view reports unless you have configured your server to start the daemon automatically at start up time.

Stopping the Reporter Daemon

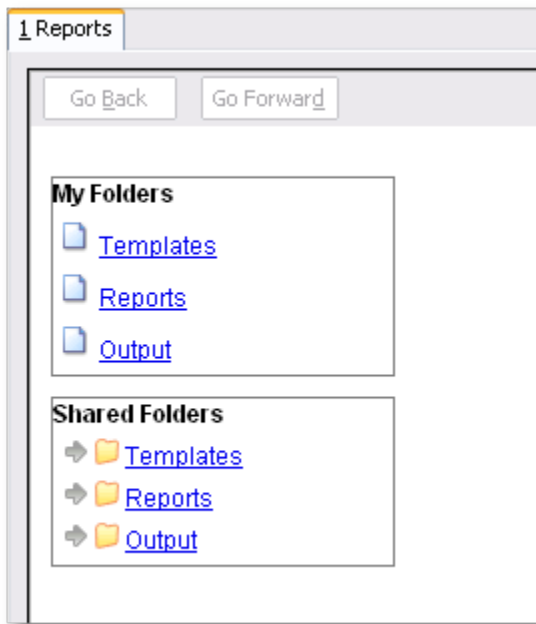
To stop the reporter daemon, you have to kill the process and remove the lockfile. Assuming you're running just a single process and that the lockfile is in the default location, perform the following commands as the opensrf user:

```
kill `ps wax | grep "Clark Kent" | grep -v grep | cut -b1-6`  
rm /tmp/reporter-LOCK
```

Chapter 121. Folders

There are three main components to reports: Templates, Reports, and Output. Each of these components must be stored in a folder. Folders can be private (accessible to your login only) or shared with other staff at your library, other libraries in your system or consortium. It is also possible to selectively share only certain folders and/or subfolders.

There are two parts to the folders pane. The My Folders section contains folders created with your Evergreen account. Folders that other users have shared with you appear in the Shared Folders section under the username of the sharing account.



Creating Folders

Whether you are creating a report from scratch or working from a shared template you must first create at least one folder.

The steps for creating folders are similar for each reporting function. It is easier to create folders for templates, reports, and output all at once at the beginning, though it is possible to do it before each step. This example demonstrates creating a folder for a template.

1. Click on Templates in the My Folders section.
2. Name the folder. Select Share or Do not share from the dropdown menu.
3. If you want to share your folder, select who you want to share this folder with from the dropdown menu.

4. Click Create Sub Folder.
5. Click OK.
6. Next, create a folder for the report definition to be saved to. Click on Reports.
7. Repeat steps 2-5 to create a Reports folder also called Circulation.
8. Finally, you need to create a folder for the report's output to be saved in. Click on Output.
9. Repeat steps 2-5 to create an Output folder named Circulation.



Using a parallel naming scheme for folders in Templates, Reports, and Output helps keep your reports organized and easier to find

The folders you just created will now be visible by clicking the arrows in My Folders. Bracketed after the folder name is whom the folder is shared with. For example, Circulation (BNCLF) is shared with the North Coast Library Federation. If it is not a shared folder there will be nothing after the folder name. You may create as many folders and sub-folders as you like.

Managing Folders

Once a folder has been created you can change the name, delete it, create a new subfolder, or change the sharing settings. This example demonstrates changing a folder name; the other choices follow similar steps

1. Click on the folder that you wish to rename.
2. Click Manage Folder.
3. Select Change folder name from the dropdown menu and click Go.
4. Enter the new name and click Submit.
5. Click OK.
6. You will get a confirmation box that the Action Succeeded. Click OK.

Chapter 122. Creating Templates

Once you have created a folder, the next step in building a report is to create or clone a template. Templates allow you to run a report more than once without building it anew every time, by changing definitions to suit current requirements. For example, you can create a shared template that reports on circulation at a given library. Then, other libraries can use your template and simply select their own library when they run the report.

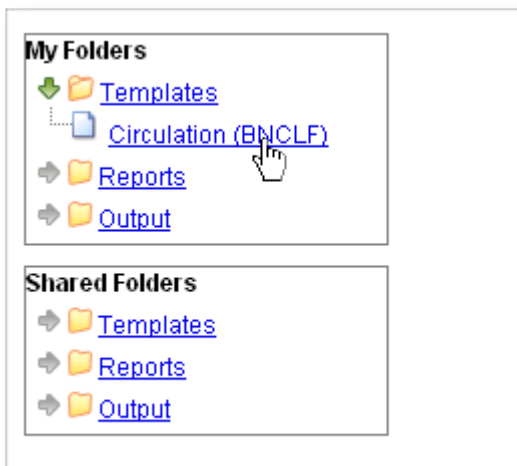
It may take several tries to refine a report to give the output that you want. It can be useful to plan out your report on paper before getting started with the reporting tool. Group together related fields and try to identify the key fields that will help you select the correct source.

It may be useful to create complex queries in several steps. For example, first add all fields from the table at the highest source level. Run a report and check to see that you get results that seem reasonable. Then clone the report, add any filters on fields at that level and run another report. Then drill down to the next table and add any required fields. Run another report. Add any filters at that level. Run another report. Continue until you've drilled down to all the fields you need and added all the filters. This might seem time consuming and you will end up cloning your initial report several times. However, it will help you to check the correctness of your results, and will help to debug if you run into problems because you will know exactly what changes caused the problem. Also consider adding extra fields in the intermediate steps to help you check your results for correctness.

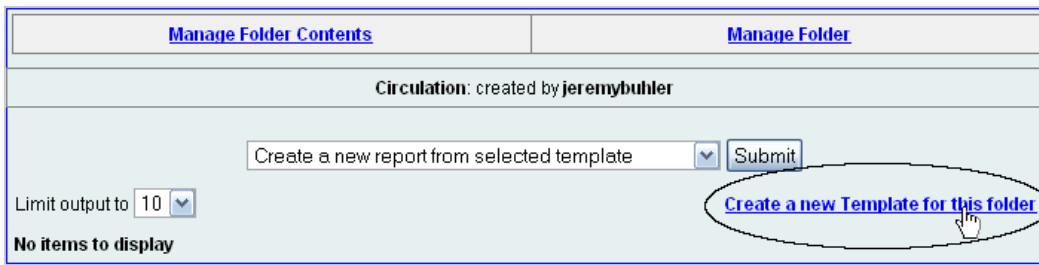
This example illustrates creating a template for circulation statistics. This is an example of the most basic template that you can create. The steps required to create a template are the same every time, but the tables chosen, how the data is transformed and displayed, and the filters used will vary depending on your needs.

Choosing Report Fields

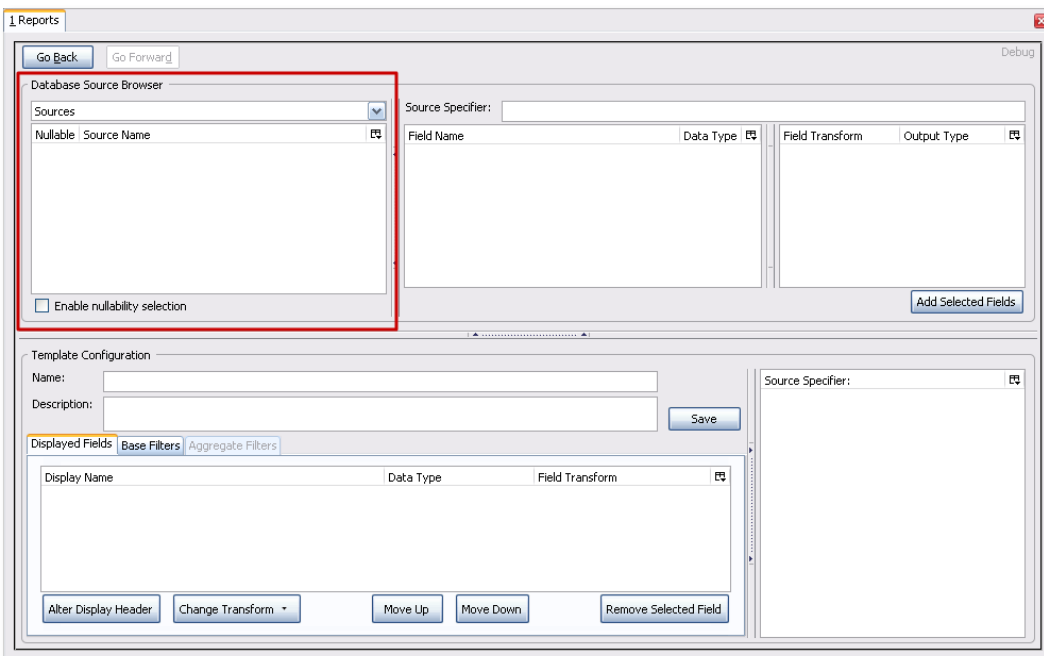
1. Click on the My Folder template folder where you want the template to be saved.



2. Click on Create a new Template for this folder.

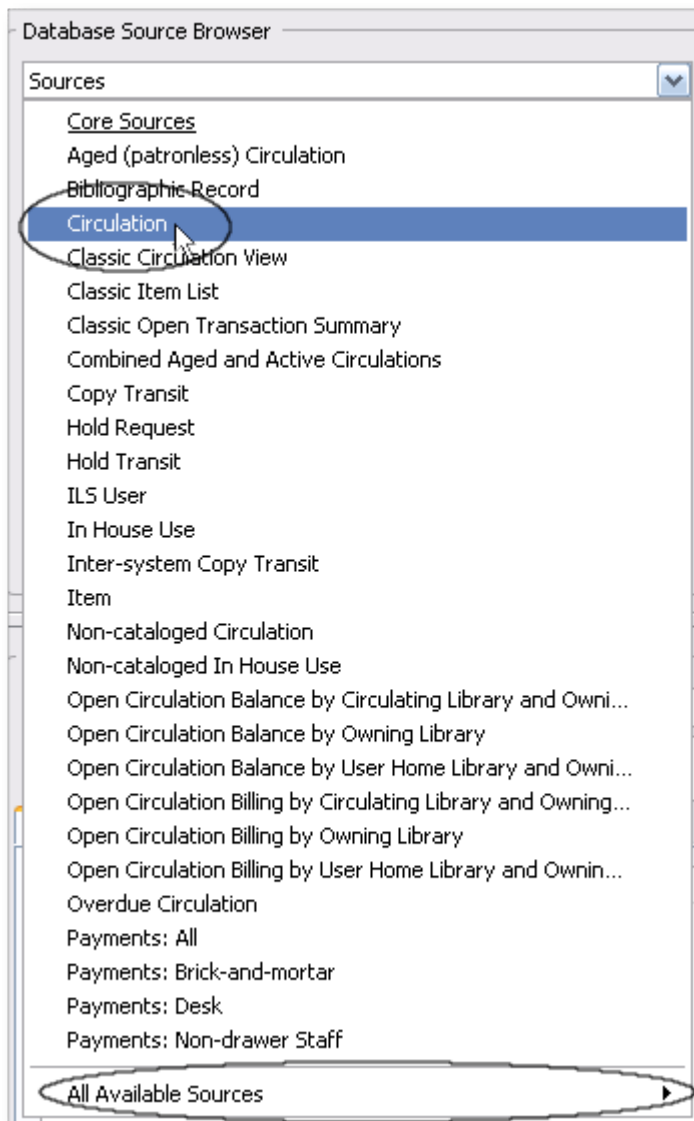


3. You can now see the template creating interface. The upper half of the screen is the Database Source Browser. The top left hand pane contains the database Sources drop-down list. This is the list of tables available as a starting point for your report. Commonly used sources are Circulation (for circ stats and overdue reports), ILS User (for patron reports), and Item (for reports on a library's holdings).

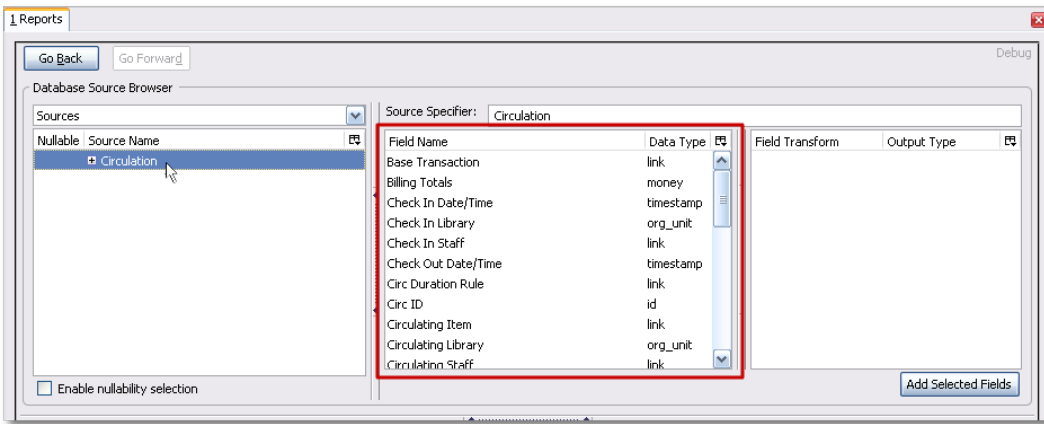


The Enable source nullability checkbox below the sources list is for advanced reporting and should be left unchecked by default.

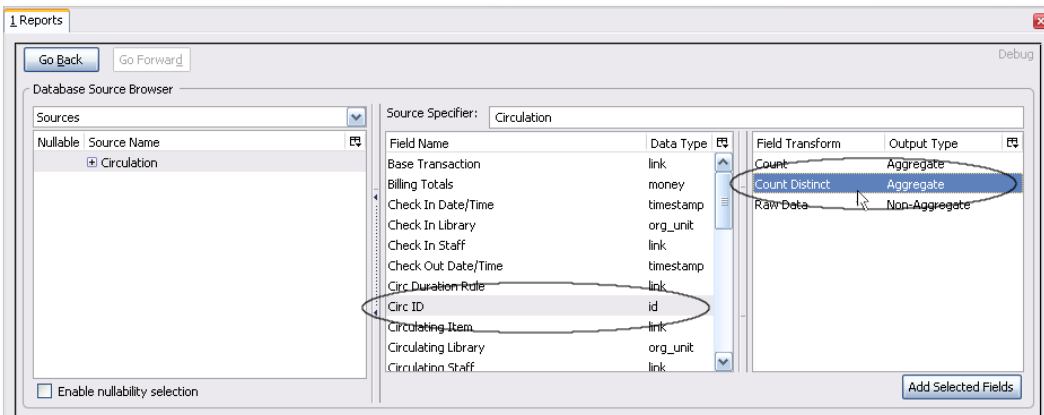
4. Select Circulation in the Sources dropdown menu. Note that the Core Sources for reporting are listed first, however it is possible to access all available sources at the bottom of this dropdown menu. You may only specify one source per template.



5. Click on Circulation to retrieve all the field names in the Field Name pane. Note that the Source Specifier (above the middle and right panes) shows the path that you took to get to the specific field.

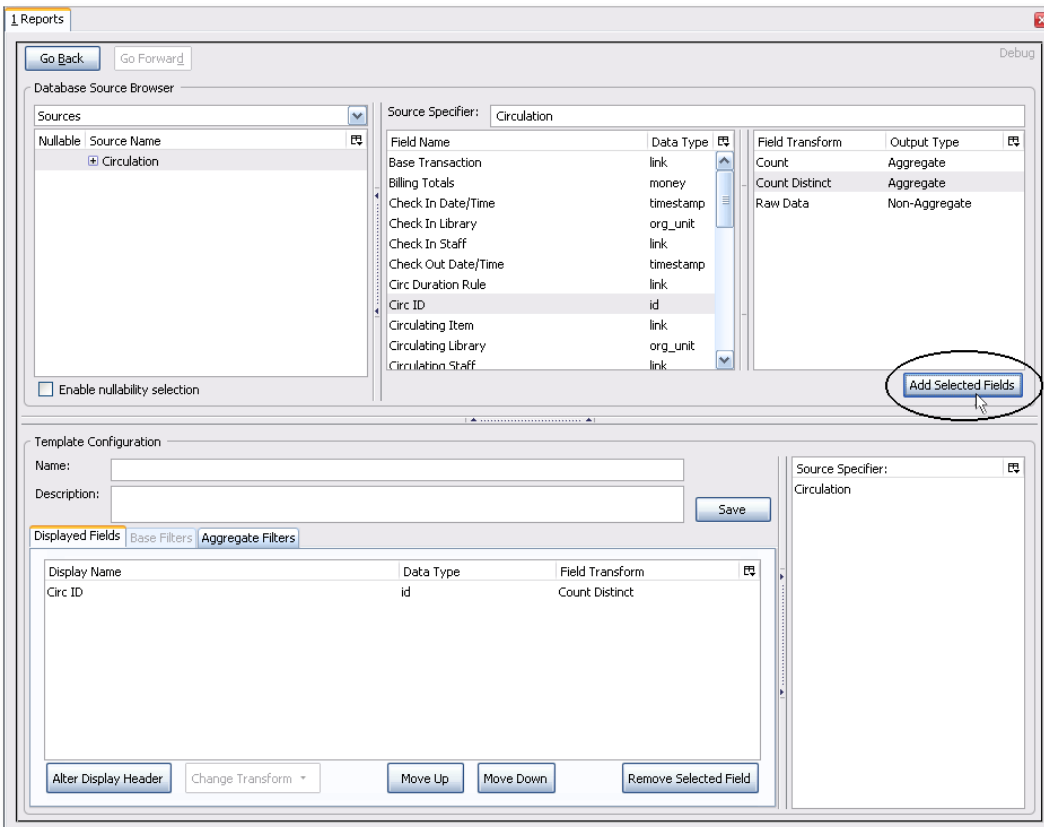


6. Select Circ ID in the middle Field Name pane, and Count Distinct from the right Field Transform pane. The Field Transform pane is where you choose how to manipulate the data from the selected fields. You are counting the number of circulations.

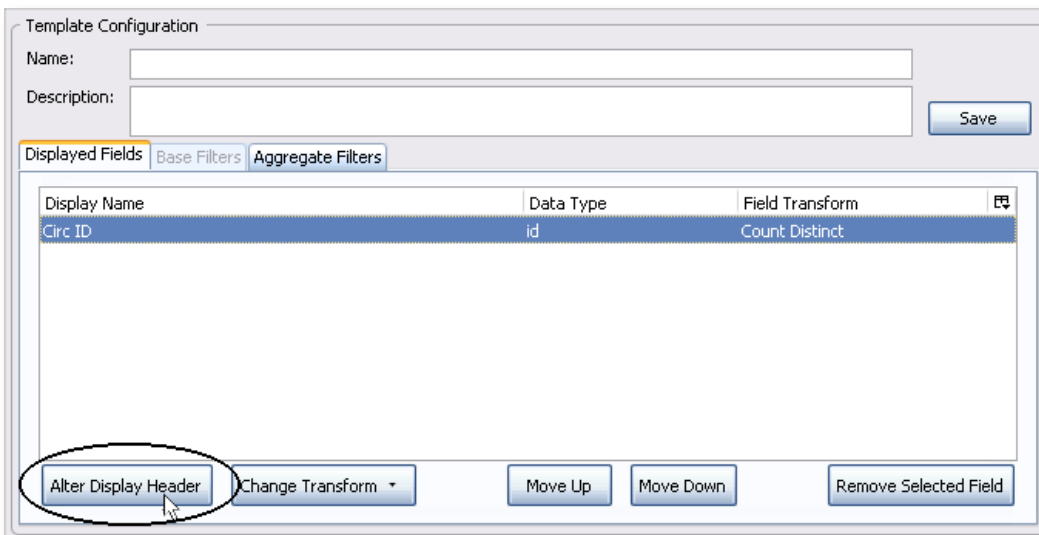


Field Transforms have either an Aggregate or Non-Aggregate output type. See the section called [Field Transforms](#) for more about Count, _Count Distinct, and other transform options.

7. Click Add Selected Fields underneath the Field Transform pane to add this field to your report output. Note that Circ ID now shows up in the bottom left hand pane under the Displayed Fields tab.

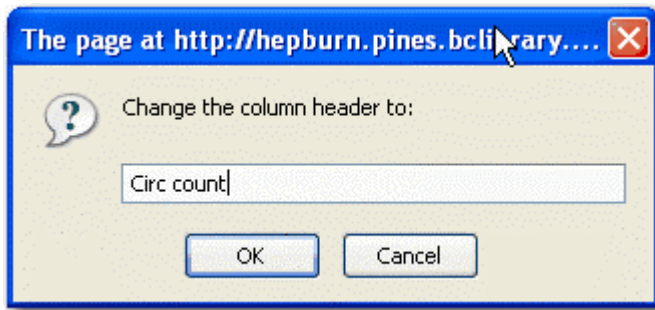


8. Circ ID will be the column header in the report output. You can rename default display names to something more meaningful. To do so in this example, select the Circ ID row and click Alter Display Header.



Double-clicking on the displayed field name is a shortcut to altering the display header.

9. Type in the new column header name, for example Circ count and click OK.

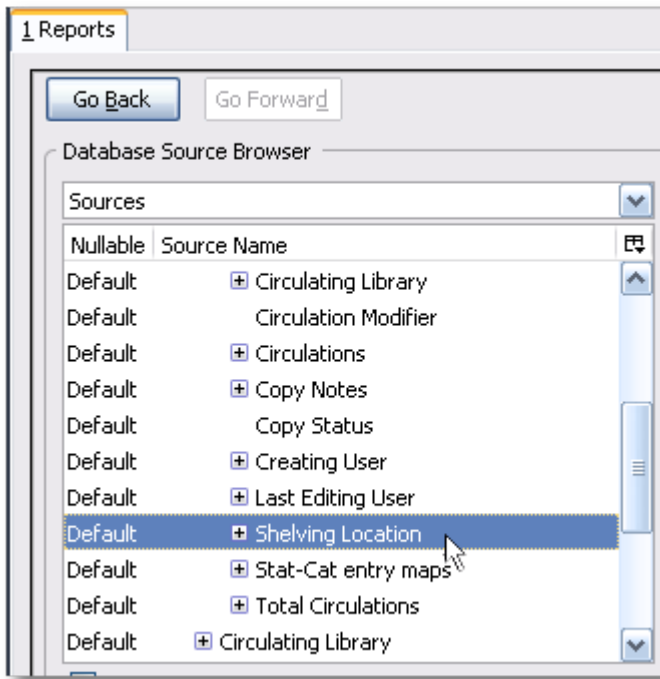


10 Add other data to your report by going back to the Sources pane and selecting the desired fields. In this example, we are going to add Circulating Item → Shelving Location to further refine the circulation report.

In the top left hand Sources pane, expand Circulation. Depending on your computer you will either click on the + sign or on an arrow to expand the tree.

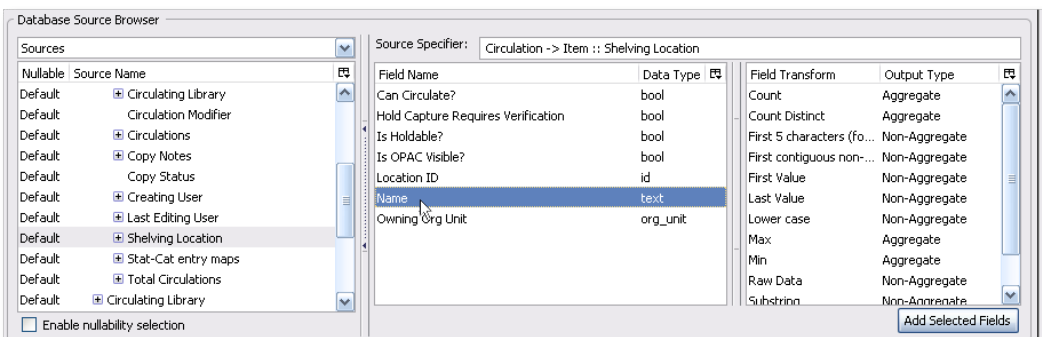


Click on the + or arrow to expand Circulating Item. Select Shelving Location.

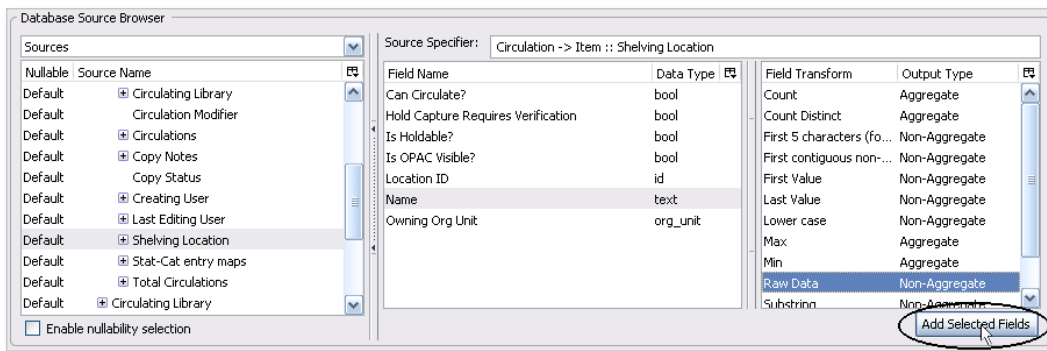


When you are creating a template take the shortest path to the field you need in the left hand Sources pane. Sometimes it is possible to find the same field name further in the file structure, but the shortest path is the most efficient.

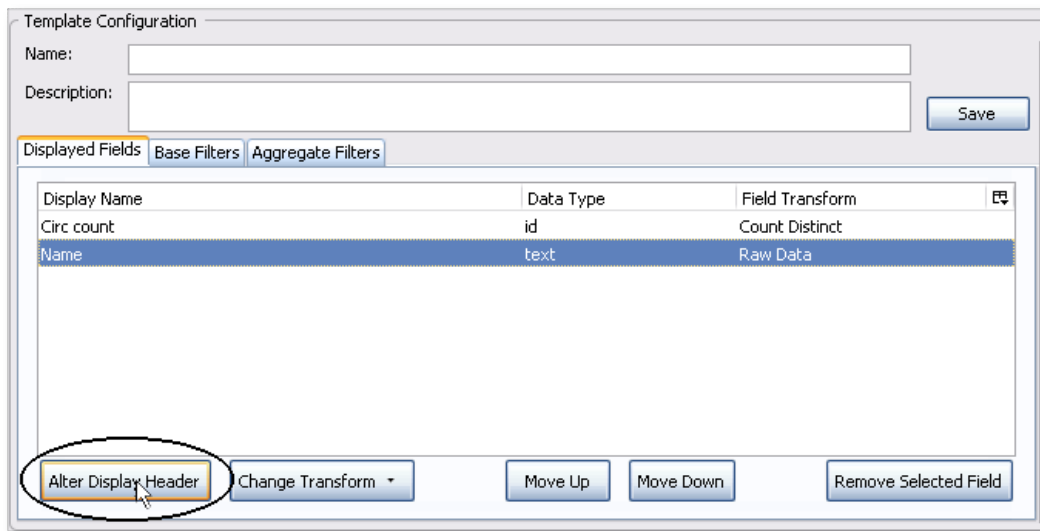
In the Field Name pane select Name.



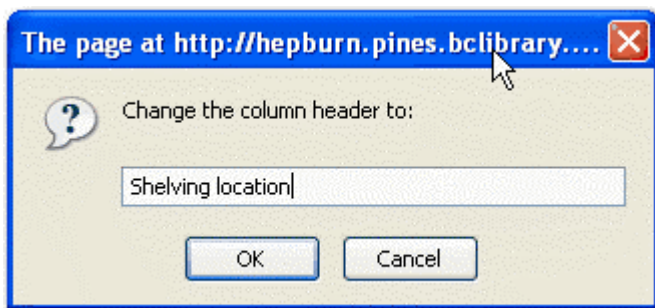
In the upper right Field Transform pane, select Raw Data and click Add Selected Fields. Use Raw Data when you do not wish to transform field data in any manner.



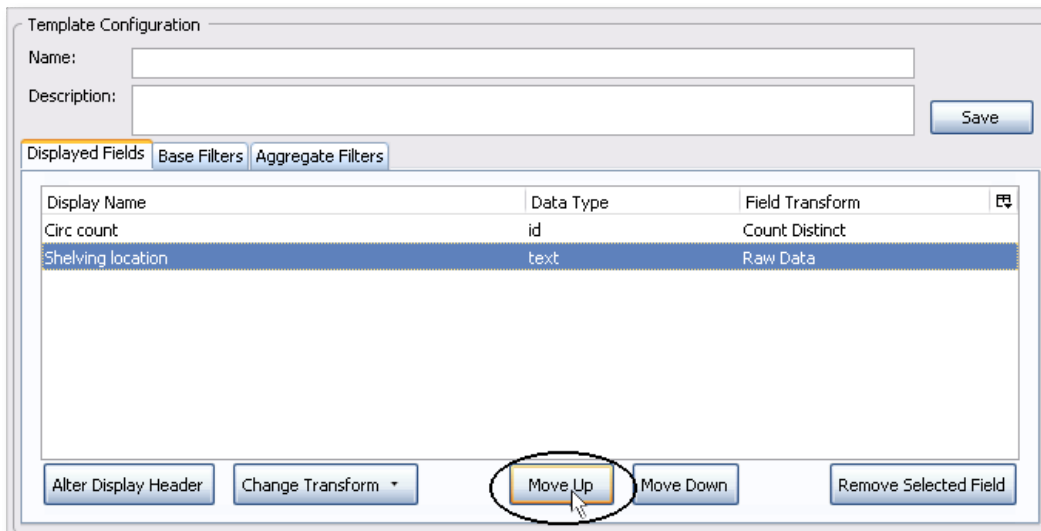
Name will appear in the bottom left pane. Select the Name row and click Alter Display Header.



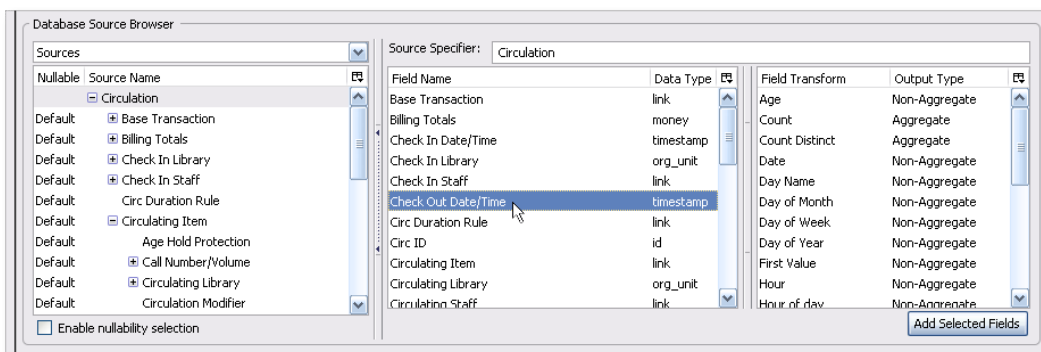
11 Enter a new, more descriptive column header, for example, Shelving location. Click OK.



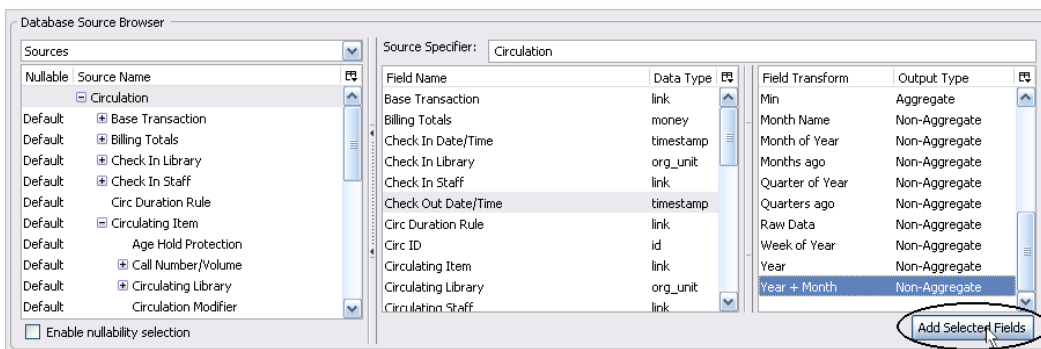
12 Note that the order of rows (top to bottom) will correspond to the order of columns (left to right) on the final report. Select Shelving location and click on Move Up to move Shelving location before Circ count.



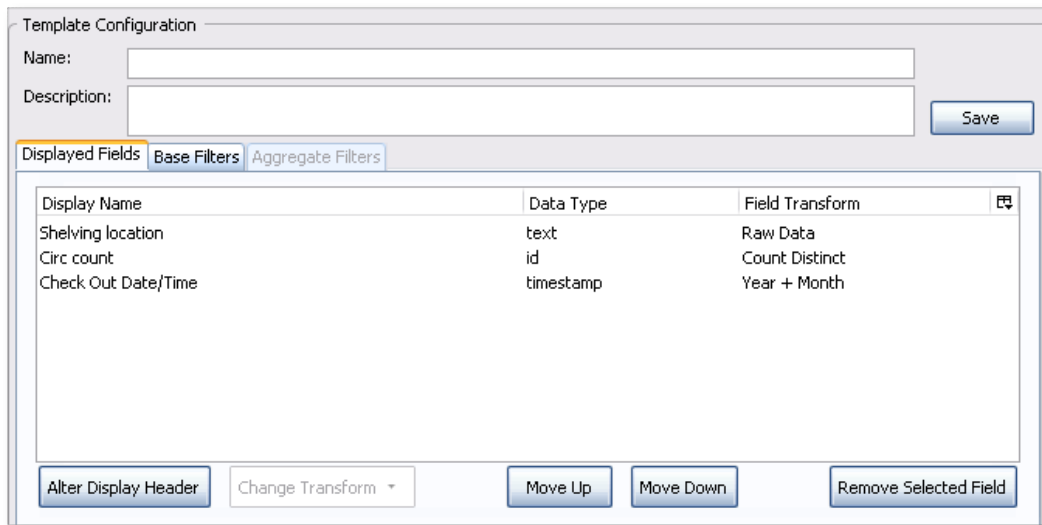
13 Return to the Sources pane to add more fields to your template. Under Sources click Circulation, then select Check Out Date/Time from the middle Field Name pane.



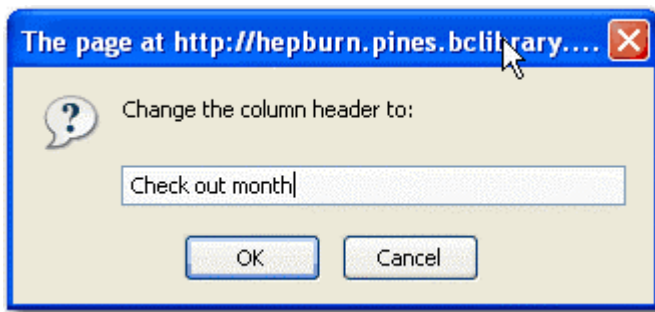
14 Select Year + Month in the right hand Field Transform pane and click Add Selected Fields



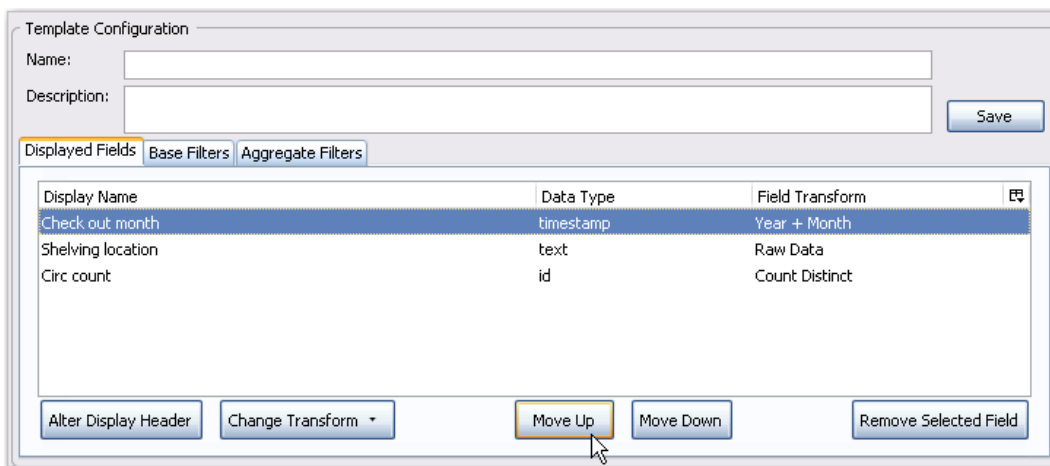
15 Check Out Date/Time will appear in the Displayed Fields pane. In the report it will appear as a year and month (YYYY-MM) corresponding to the selected transform.



16 Select the Check Out Date/Time row. Click Alter Display Header and change the column header to Check out month.

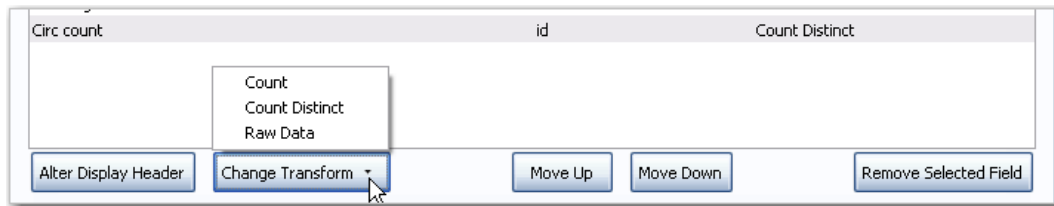


17 Move Check out month to the top of the list using the Move Up button, so that it will be the first column in an MS Excel spreadsheet or in a chart. Report output will sort by the first column.





Note the Change Transform button in the bottom left hand pane. It has the same function as the upper right Field Transform pane for fields that have already been added.



Applying Filters

Evergreen reports access the entire database, so to limit report output to a single library or library system you need to apply filters.

After following the steps in the previous section you will see three fields in the bottom left hand Template Configuration pane. There are three tabs in this pane: Displayed Fields (covered in the previous section), Base Filters and Aggregate Filters. A filter allows you to return only the results that meet the criteria you set.

Base Filters apply to non-aggregate output types, while Aggregate Filters are used for aggregate types. In most reports you will be using the Base Filters tab. For more information on aggregate and non-aggregate types see the section called “Field Transforms”.

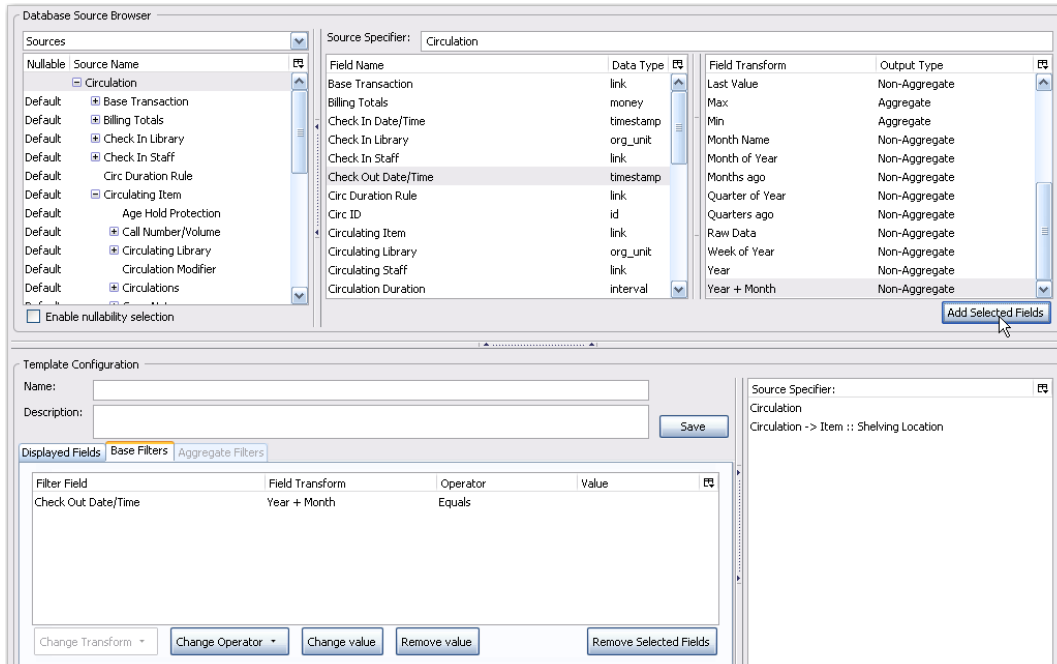
There are many available operators when using filters. Some examples are Equals, In list, is NULL, Between, Greater than or equal to, and so on. In list is the most flexible operator, and in this case will allow you flexibility when running a report from this template. For example, it would be possible to run a report on a list of timestamps (in this case will be trimmed to year and month only), run a report on a single month, or run a report comparing two months. It is also possible to set up recurring reports to run at the end of each month.

In this example we are going to use a Base Filter to filter out one library’s circulations for a specified time frame. The time frame in the template will be configured so that you can change it each time you run the report.

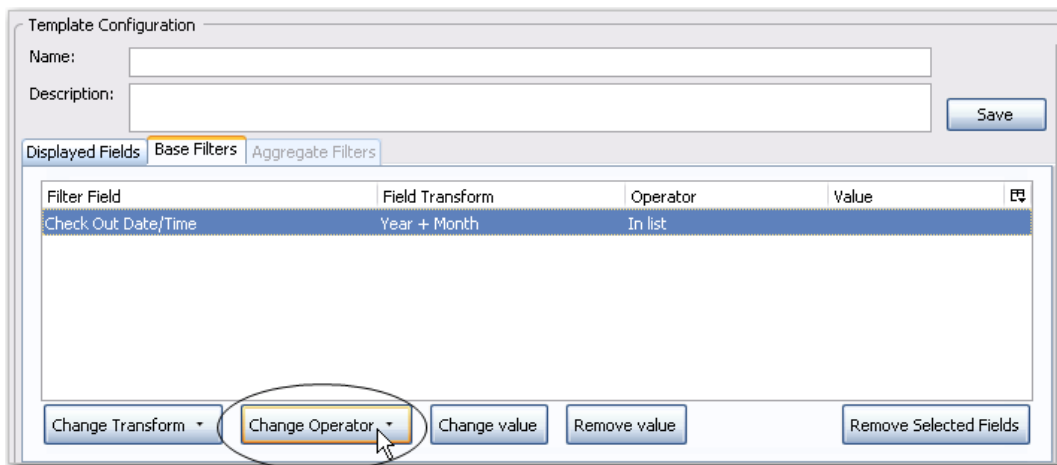
Using Base Filters

1. Select the Base Filters tab in the bottom Template Configuration pane.

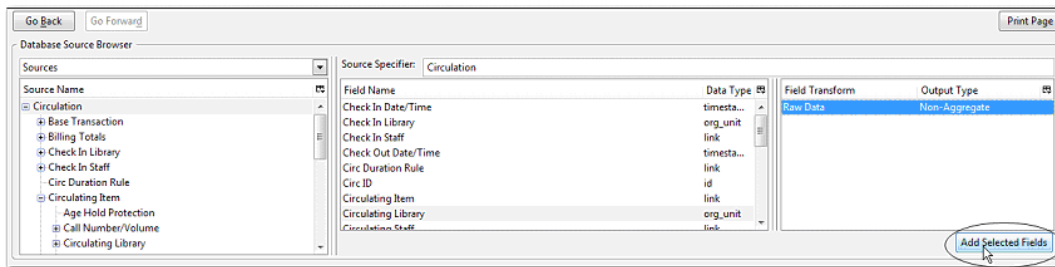
- For this circulation statistics example, select Circulation --> Check Out Date/Time --> Year + Month and click on Add Selected Fields. You are going to filter on the time period.



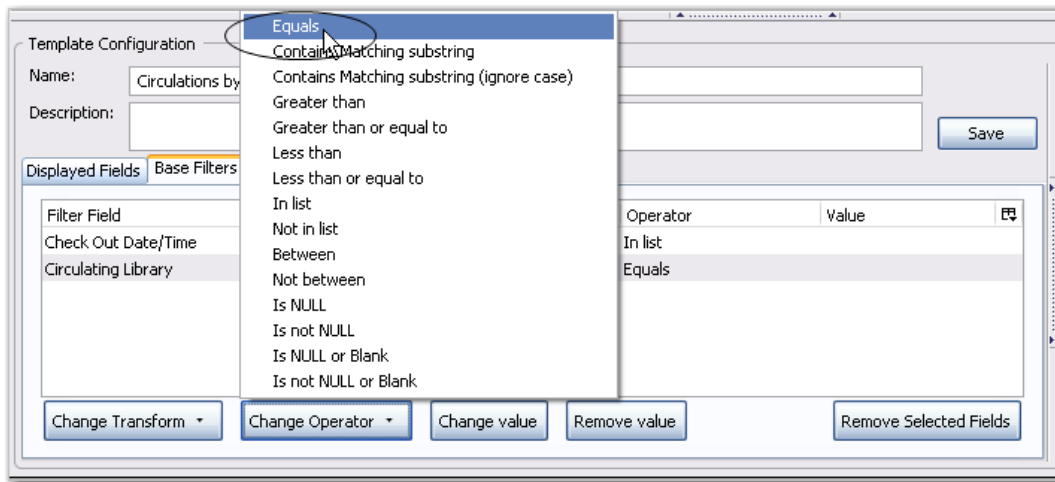
- Select Check Out Date/Time. Click on Change Operator and select In list from the dropdown menu.



- To filter on the location of the circulation select Circulation --> Circulating library --> Raw Data and click on Add Selected Fields.

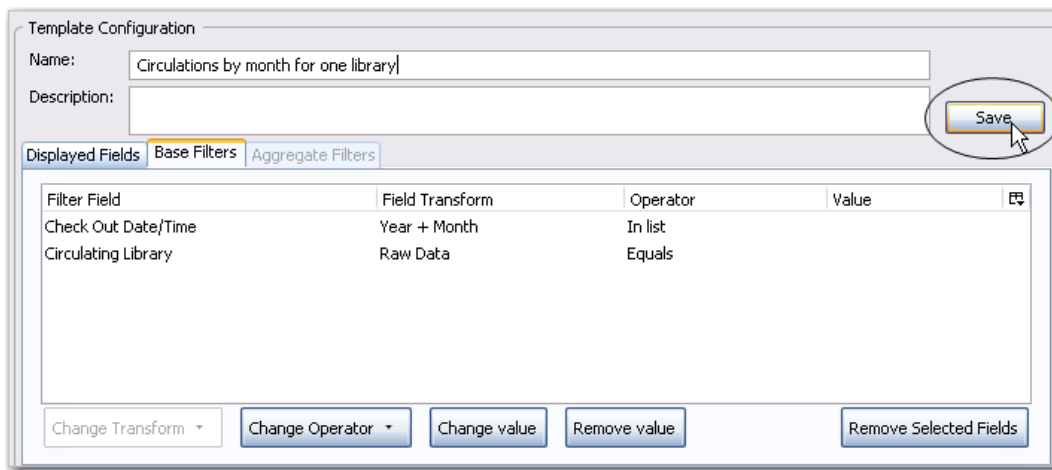


5. Select Circulating Library and click on Change Operator and select Equals. Note that this is a template, so the value for Equals will be filled out when you run the report.

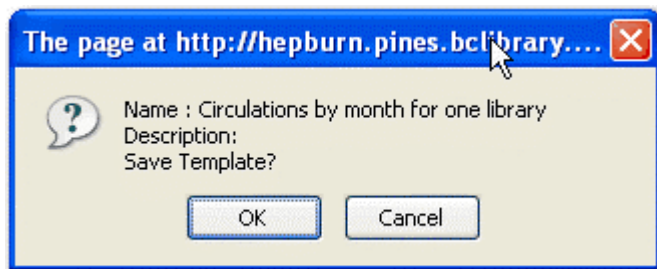


For multi-branch libraries, you would select Circulating Library with In list as the operator, so you could specify the branch(es) when you run the report. This leaves the template configurable to current requirements. In comparison, sometimes you will want to hardcode true/false values into a template. For example, deleted bibliographic records remain in the database, so perhaps you want to hardcode deleted=false, so that deleted records don't show up in the results. You might want to use deleted=true, for a template for a report on deleted items in the last month.

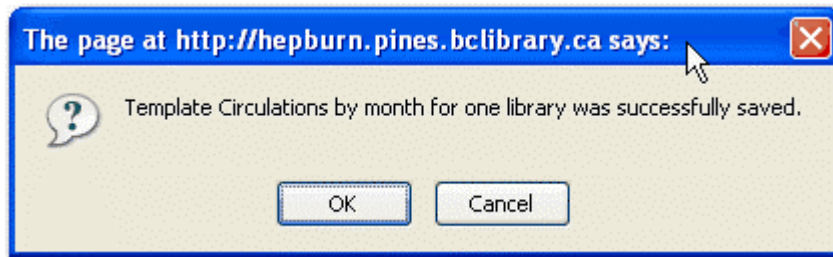
6. Once you have configured your template, you must name and save it. Name this template Circulations by month for one library. You can also add a description. In this example, the title is descriptive enough, so a description is not necessary. Click Save.



7. Click OK.



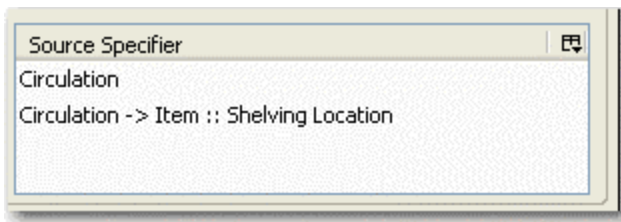
8. You will get a confirmation dialog box that the template was successfully saved. Click OK.



After saving it is not possible to edit a template. To make changes you will need to clone it and edit the clone



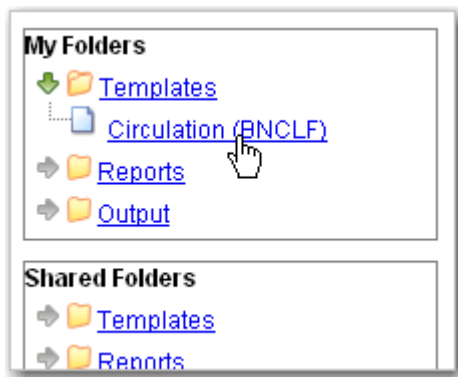
The bottom right hand pane is also a source specifier. By selecting one of these rows you will limit the fields that are visible to the sources you have specified. This may be helpful when reviewing templates with many fields. Use Ctrl+Click to select or deselect items.



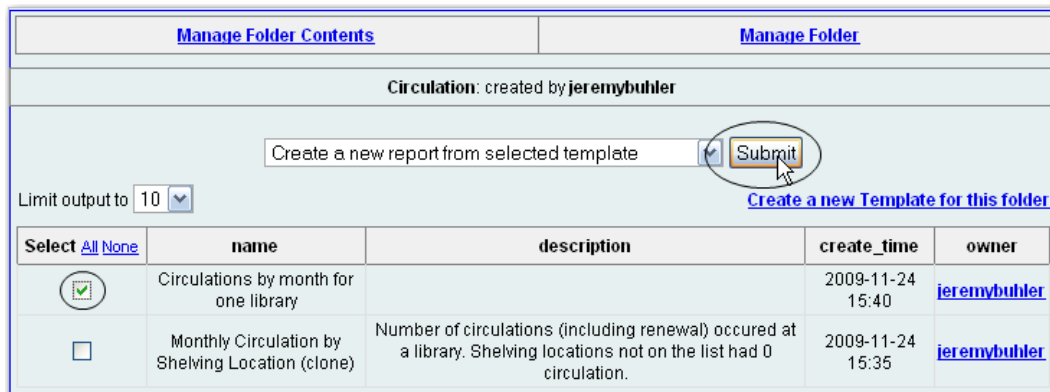
Chapter 123. Generating Reports from Templates

Now you are ready to run the report from the template you have created.



1. In the My Folders section click the arrow next to Templates to expand this folder and select circulation.





2. Select the box beside Circulations by month for one library. Select Create a new report from selected template from the dropdown menu. Click Submit.



3. Complete the first part of report settings. Only Report Name and Choose a folder... are required fields.

Template Name: ❶	Circulations by month for one library
Template Creator:	jeremybuhler
Template Description:	
Report Name: ❷	October 2009 circ
Report Description: ❸	Prince Rupert circulation stats by shelving location for October 2009
Report Columns: ❹	Check out month Shelving location Circ count
Pivot Label Column:	- Select One (optional) -
Pivot Data Column: ❺	Circ count
Choose a folder to store this report definition: ❻	Selected Folder: Circulation  Report Folders  Circulation

- 1) Template Name, Template Creator, and Template Description are for informational purposes only. They are hard coded when the template is created. At the report definition stage it is not possible to change them.
 - 2) Report Name is required. Reports stored in the same folder must have unique names.
 - 3) Report Description is optional but may help distinguish among similar reports.
 - 4) Report Columns lists the columns that will appear in the output. This is derived from the template and cannot be changed during report definition.
 - 5) Pivot Label Column and Pivot Data Column are optional. Pivot tables are a different way to view data. If you currently use pivot tables in MS Excel it is better to select an Excel output and continue using pivot tables in Excel.
 - 6) You must choose a report folder to store this report definition. Only report folders under My Folders are available. Click on the desired folder to select it.
4. Select values for the Circulation > Check Out Date/Time. Use the calendar widget or manually enter the desired dates, then click Add to include the date on the list. You may add multiple dates.

Pivot Label Column:	- Select One (optional) -
Pivot Data Column:	Circ count
Choose a folder to store this report definition:	 Report Folders  Circulation

Column	Transform	In list	Params
Circulation -> Check Out Date/Time	Year + Month	In list	Real Date <input type="text" value="2009-10"/> <input type="button" value="Add"/> <input type="button" value="Del"/> <input type="text" value="2009-10"/>

The Transform for this field is Year + Month, so even if you choose a specific date (2009-10-20) it will appear as the corresponding month only (2009-10).

It is possible to select relative dates. If you select a relative date 1 month ago you can schedule reports to automatically run each month. If you want to run monthly reports that also show comparative data from one year ago, select a relative date 1 month ago, and 13 months ago.

5. Select a value for the Circulating Library.

6. Complete the bottom portion of the report definition interface, then click Save.

The screenshot shows the 'Output Options' dialog box. It has several sections: 'Output Options' with checkboxes for Excel Output (checked), CSV Output (unchecked), and HTML Output (checked). Under HTML Output, there are sub-options for Bar Charts (checked) and Line Charts (unchecked). Below this is a 'Recurring Report' checkbox (unchecked) and a 'Recurrence Interval' section with a dropdown set to '1' and 'Day(s)'. There is a 'Run as soon as possible' checkbox (checked) and a date/time selector showing '2009-11-24' and 'Midnight'. The 'Send completion notification to this Email address' field contains 'info@library.com'. The 'Choose a folder to store this report's output' section shows a tree view with 'Output Folders' and 'Circulation' (selected). A 'Save Report' button is at the bottom left.

1) Select one or more output formats. In this example the report output will be available as an Excel spreadsheet, an HTML table (for display in the staff client or browser), and as a bar chart.

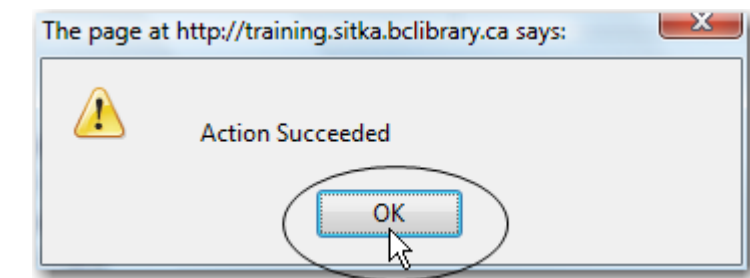
2) If you want the report to be recurring, check the box and select the Recurrence Interval as described in [Recurring Reports](#). In this example, as this is a report that will only be run once, the Recurring Report box is not checked.

3) Select Run as soon as possible for immediate output. It is also possible to set up reports that run automatically at future intervals.

4) It is optional to fill out an email address where a completion notice can be sent. The email will contain a link to password-protected report output (staff login required). If you have an email address in your Local System Administrator account it will automatically appear in the email notification box. However, you can enter a different email address or multiple addresses separated by commas.

7. Select a folder for the report's output.

8. You will get a confirmation dialogue box that the Action Succeeded. Click OK.

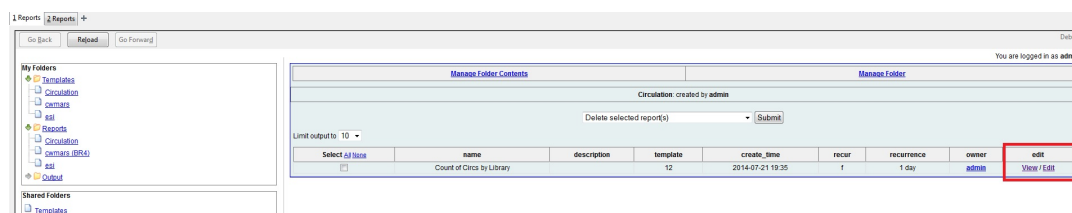


Once saved, reports stay there forever unless you delete them.

Viewing and Editing Report Parameters

New options to view or edit report parameters are available from the reports folder.

To view the parameters of a report, select the report that you want to view from the Reports folder, and click View. This will enable you to view the report, including links to external documentation and field hints. However, you cannot make any changes to the report.



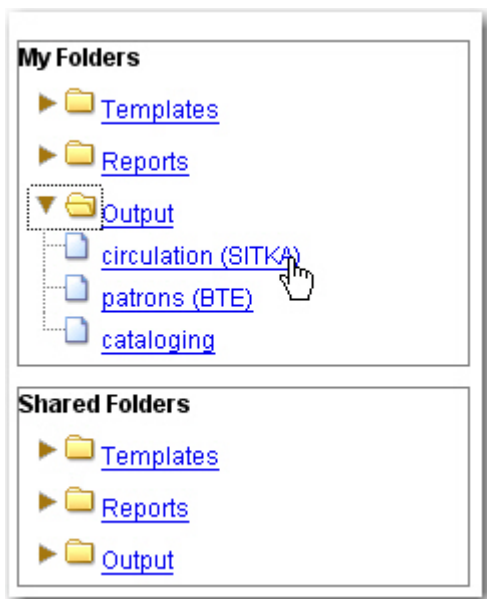
To edit the parameters of a report, select the report that you want to view from the Reports folder, and click Edit. After making changes, you can Save [the] Report or Save as New. If you Save the Report, any subsequent report outputs that are generated from this report will reflect the changes that you have made.

In addition, whenever there is a pending (scheduled, but not yet started) report output, the interface will warn you that the pending output will be modified. At that point, you can either continue or choose the alternate Save as New option, leaving the report output untouched.

Chapter 124. Viewing Report Output

When a report runs Evergreen sends an email with a link to the output to the address defined in the report. Output is also stored in the specified Output folder and will remain there until manually deleted.

1. To view report output in the staff client, open the reports interface from Admin (-) --> Local Administration --> Reports
2. Click on Output to expand the folder. Select Circulation (where you just saved the circulation report output).



3. View report output is the default selection in the dropdown menu. Select Recurring Monthly Circ by Location by clicking the checkbox and click Submit.

View report output

Limit output to Pending Items

No items to display

Limit output to Completed Items

Select	report	run_time	complete_time	runner	email	folder	error_text	excel_format	html_format	csv_format
<input checked="" type="checkbox"/>	October 2009 circs	2009-11-24 18:00		jeremybuhler		296		t	t	f

4. A new tab will open for the report output. Select either Tabular Output or Excel Output. If Bar Charts was selected during report definition the chart will also appear.

5. Tabular output looks like this:

Check out month	Shelving location	Circ count
2009-10	Adult Fiction	10
2009-10	Adult Fiction - Second Floor	1125
2009-10	Adult Non-Fiction	1188
2009-10	Adult Non-fiction	12
2009-10	Adult Paperbacks - Mystery	1
2009-10	Adult Videos	368
2009-10	Adult Videos - Educational	66
2009-10	Biographies	34
2009-10	CD-RDMs	3
2009-10	CDs	144
2009-10	Children's Videos	232
2009-10	Children's Videos - Educational	2
2009-10	Christmas Storage	5
2009-10	DVDs	981
2009-10	JP Basement Storage	56
2009-10	Juvenile Easy Readers	152
2009-10	Juvenile Fiction	476
2009-10	Juvenile Non-Fiction	199
2009-10	Juvenile Picture Books	634
2009-10	Large Print	73

6. If you want to manipulate, filter or graph this data, Excel output would be more useful. Excel output will generate a ".xlsx" file. Excel output looks like this in Excel:

	A	B	C	D	E
1	Check out month	Shelving location	Circ count		
2	2009-10	Adult Fiction	10		
3	2009-10	Adult Fiction - Second Floor	1125		
4	2009-10	Adult Non-Fiction	1188		
5	2009-10	Adult Non-fiction	12		
6	2009-10	Adult Paperbacks - Mystery	1		
7	2009-10	Adult Videos	368		
8	2009-10	Adult Videos - Educational	66		
9	2009-10	Biographies	34		
10	2009-10	CD-ROMs	3		
11	2009-10	CDs	144		
12	2009-10	Children's Videos	232		
13	2009-10	Children's Videos - Education	2		
14	2009-10	Christmas Storage	5		
15	2009-10	DVDs	981		
16	2009-10	JP Basement Storage	56		
17	2009-10	Juvenile Easy Readers	152		
18	2009-10	Juvenile Fiction	476		
19	2009-10	Juvenile Non-Fiction	199		
20	2009-10	Juvenile Picture Books	634		
21	2009-10	Large Print	73		
22	2009-10	Literacy Collection	4		
23	2009-10	Multilingual Collection	32		
24	2009-10	Multilingual Juvenile French	22		

Chapter 125. Cloning Shared Templates

This chapter describes how to make local copies of shared templates for routine reports or as a starting point for customization. When creating a new template it is a good idea to review the shared templates first: even if the exact template you need does not exist it is often faster to modify an existing template than to build a brand new one. A Local System Administrator account is required to clone templates from the Shared Folders section and save them to My Folders.

The steps below assume you have already created at least one Templates folder. If you haven't done this, please see [Creating Folders](#).

1. Access the reports interface from Administration → Reports
2. Under Shared Folders expand the Templates folder and the subfolder of the report you wish to clone. To expand the folders click on the grey arrow or folder icon. Do not click on the blue underlined hyperlink.
3. Click on the subfolder.
4. Select the template you wish to clone. From the dropdown menu choose Clone selected templates, then click Submit.



By default Evergreen only displays the first 10 items in any folder. To view all content, change the Limit output setting from 10 to All.

5. Choose the folder where you want to save the cloned template, then click Select Folder. Only template folders created with your account will be visible. If there are no folders to choose from please see [Creating Folders](#).
6. The cloned template opens in the template editor. From here you may modify the template by adding, removing, or editing fields and filters as described in [Creating Templates](#). Template Name and Description can also be edited. When satisfied with your changes click Save.
7. Click OK in the resulting confirmation windows.

Once saved it is not possible to edit a template. To make changes, clone a template and change the clone.

Chapter 126. Adding Data Sources to Reporter

You can further customize your Evergreen reporting environment by adding additional data sources.

The Evergreen reporter module does not build and execute SQL queries directly, but instead uses a data abstraction layer called Fieldmapper to mediate queries on the Evergreen database. Fieldmapper is also used by other core Evergreen DAO services, including cstore and permacrud. The configuration file `fm_IDL.xml` contains the mapping between Fieldmapper class definitions and the database. The `fm_IDL.xml` file is located in the `/openils/conf` directory.

There are 3 basic steps to adding a new data source. Each step will be discussed in more detail in the

1. Create a PostgreSQL query, view, or table that will provide the data for your data source.
2. Add a new class to `fm_IDL.xml` for your data source.
3. Restart the affected services to see the new data source in Reporter.

There are two possible sources for new data sources:

- An SQL query built directly into the class definition in `fm_IDL.xml`. You can use this method if you are only going to access this data source through the Evergreen reporter and/or cstore code that you write.
- A new table or view in the Evergreen PostgreSQL database on which a class definition in `fm_IDL.xml`. You can use this method if you want to be able to access this data source through directly through SQL or using other reporting tool.

Create a PostgreSQL query, view, or table for your data source

You need to decide whether you will create your data source as a query, a view, or a table.

1. Create a query if you are planning to access this data source only through the Evergreen reporter and/or cstore code that you write. You will use this query to create an IDL only view.

2. Create a view if you are planning to access this data source through other methods in addition to the Evergreen reporter, or if you may need to do performance tuning to optimize your query.
3. You may also need to use an additional table as part of your data source if you have additional data that's not included in the base Evergreen, or if you need to use a table to store the results of a query for performance reasons.

To develop and test queries, views, and tables, you will need

- Access to the Evergreen PostgreSQL database at the command line. This is normally the `psql` application. You can access the Postgres documentation at the [Official Postgres documentation](#) for more information about PostgreSQL.
- Knowledge of the Evergreen database structure for the data that you want to access. You can find this information by looking at the Evergreen schema [Evergreen schema](#)

If the views that you are creating are purely local in usage and are not intended for contribution to the core Evergreen code, create the Views and Tables in the `extend_reporter` schema. This schema is intended to be used for local customizations and will not be modified during upgrades to the Evergreen system.

You should make that you have an appropriate version control process for the SQL used to create you data sources.

Here's an example of a view created to incorporate some locally defined user statistical categories:

example view for reports.

```
create view extend_reporter.patronstats as
select u.id,
grp.name as "ptype",
rl.stat_cat_entry as "reg_lib",
gr.stat_cat_entry as "gender",
ag.stat_cat_entry as "age_group",
EXTRACT(YEAR FROM age(u.dob)) as "age",
hl.id as "home_lib",
u.create_date,
u.expire_date,
ms_balance_owed
from actor.usr u
join permission.grp_tree grp
  on (u.profile = grp.id and (grp.parent = 2 or grp.name = 'patron'))
join actor.org_unit hl on (u.home_ou = hl.id)
left join money.open_usr_summary ms
  on (ms.usr = u.id)
left join actor.stat_cat_entry_usr_map rl
  on (u.id = rl.target_usr and rl.stat_cat = 4)
left join actor.stat_cat_entry_usr_map bt
  on (u.id = bt.target_usr and bt.stat_cat = 3)
left join actor.stat_cat_entry_usr_map gr
  on (u.id = gr.target_usr and gr.stat_cat = 2)
left join actor.stat_cat_entry_usr_map gr
  on (u.id = gr.target_usr and gr.stat_cat = 2)
left join actor.stat_cat_entry_usr_map ag
  on (u.id = ag.target_usr and ag.stat_cat = 1)
where u.active = 't' and u.deleted <> 't';
```

Add a new class to fm_IDL.xml for your data source

Once you have your data source, the next step is to add that data source as a new class in fm_IDL.xml.

You will need to add the following attributes for the class definition:

- id. You should follow a consistent naming convention for your class names that won't create conflicts in the future with any standard classes added in future upgrades. Evergreen normally names each class with the first letter of each word in the schema and table names. You may want to add a local prefix or suffix to your local class names.
- controller="open-ils.cstore"
- oils_obj:fieldmapper="extend_reporter::long_name_of_view"
- oils_persist.readonly="true"
- reporter:core="true" (if you want this to show up as a "core" reporting source)
- reporter:label. This is the name that will appear on the data source list in the Evergreen reporter.
- oils_persist:source_definition. If this is an IDL-only view, add the SQL query here. You don't need this attribute if your class is based on a PostgreSQL view or table.
- oils_persist:tablename="schemaname.viewname or tablename" If this class is based on a PostgreSQL view or table, add the table name here. You don't need this attribute if your class is an IDL-only view.

For each column in the view or query output, add field element and set the following attributes. The fields should be wrapped with <field> </field>:

- reporter:label. This is the name that appears in the Evergreen reporter.
- name. This should match the column name in the view or query output.
- reporter:datatype (which can be id, bool, money, org_unit, int, number, interval, float, text, timestamp, or link)

For each linking field, add a link element with the following attributes. The elements should be wrapped with <link> </link>:

- field (should match field.name)
- reltype ("has_a", "might_have", or "has_many")
- map ("")
- key (name of the linking field in the foreign table)

- class (ID of the IDL class of the table that is to be linked to)

The following example is a class definition for the example view that was created in the previous section.

example class definition for reports.

```
<class id="erpstats" controller="open-ils.reporter-store"
oils_obj:fieldmapper="extend_reporter::patronstats"
oils_persist:tablename="extend_reporter.patronstats" oils_persist:readonly="true"
reporter:label="Patron Statistics" reporter:core="true">
  <fields oils_persist:primary="id">
    <field reporter:label="Patron ID" name="id" reporter:datatype="link" />
    <field reporter:label="Patron Type" name="ptype" reporter:datatype="text" />
    <field reporter:label="Reg Lib" name="reg_lib" reporter:datatype="text" />
    <field reporter:label="Boro/Twp" name="boro_twp" reporter:datatype="text" />
    <field reporter:label="Gender" name="gender" reporter:datatype="text" />
    <field reporter:label="Age Group" name="age_group" reporter:datatype="text" />
    <field reporter:label="Age" name="age" reporter:datatype="int" />
    <field reporter:label="Home Lib ID" name="home_lib_id"
      reporter:datatype="link" />
    <field reporter:label="Home Lib Code" name="home_lib_code"
      reporter:datatype="text" />
    <field reporter:label="Home Lib" name="home_lib" reporter:datatype="text" />
    <field reporter:label="Create Date" name="create_date"
      reporter:datatype="timestamp" />
    <field reporter:label="Expire Date" name="expire_date"
      reporter:datatype="timestamp" />
    <field reporter:label="Balance Owed" name="balance_owed"
      reporter:datatype="money" />
  </fields>
  <links>
    <link field="id" reltype="has_a" key="id" map="" class="au"/>
    <link field="home_lib_id" reltype="has_a" key="id" map="" class="aou"/>
  </links>
</class>
```



fm_IDL.xml is used by other core Evergreen DAO services, including cstore and permacrud. So changes to this file can affect the entire Evergreen application, not just reporter. After making changes fm_IDL.xml, it is a good idea to ensure that it is valid XML by using a utility such as xmllint - a syntax error can render much of Evergreen nonfunctional. Set up a good change control system for any changes to fm_IDL.xml. You will need to keep a separate copy of you local class definitions so that you can reapply the changes to fm_IDL.xml after Evergreen upgrades.

Restart the affected services to see the new data source in the reporter

The following steps are needed to for Evergreen to recognize the changes to fm_IDL.xml

1. Copy the updated fm_IDL.xml into place:

```
cp fm_IDL.xml /openils/conf/.
```

2. (Optional) Make the reporter version of fm_IDL.xml match the core version. Evergreen systems supporting only one interface language will normally find that /openils/var/web/reports/

fm_IDL.xml is a symbolic link pointing to /openils/conf/fm_IDL.xml, so no action will be required. However, systems supporting multiple interfaces will have a different version of fm_IDL.xml in the /openils/var/web/reports directory. The right way to update this is to go through the Evergreen internationalization build process to create the entity form of fm_IDL.xml and the updated fm_IDL.dtd files for each supported language. However, that is outside the scope of this document. If you can accept the reporter interface supporting only one language, then you can simply copy your updated version of fm_IDL.xml into the /openils/var/web/reports directory:

```
cp /openils/conf/fm_IDL.xml /openils/var/web/reports/.
```

3. As the opensrf user, run Autogen to to update the Javascript versions of the fieldmapper definitions.

```
/openils/bin/autogen.sh
```

4. As the opensrf user, restart services:

```
osrf_control --localhost --restart-services
```

5. As the root user, restart the Apache web server:

```
service apache2 restart
```

6. As the opensrf user, restart the Evergreen reporter. You may need to modify this command depending on your system configuration and PID path:

```
opensrf-perl.pl -l -action restart -service open-ils.reporter \  
-config /openils/conf/opensrf_core.xml -pid-dir /openils/var/run
```

7. Restart the Evergreen staff client, or use Admin --> For Developers --> Clear Cache

Chapter 127. Running Recurring Reports

Recurring reports are a useful way to save time by scheduling reports that you run on a regular basis, such as monthly circulation and monthly patron registration statistics. When you have set up a report to run on a monthly basis you'll get an email informing you that the report has successfully run. You can click on a link in the email that will take you directly to the report output. You can also access the output through the reporter interface as described in [Viewing Report Output](#).

To set up a monthly recurring report follow the procedure in [Generating Reports from Templates](#) but make the changes described below.

1. Select the Recurring Report check-box and set the recurrence interval to 1 month.
2. Do not select Run ASAP. Instead schedule the report to run early on the first day of the next month. Enter the date in YYYY-MM-DD format.
3. Ensure there is an email address to receive completion emails. You will receive an email completion notice each month when the output is ready.
4. Select a folder for the report's output.
5. Click Save Report.
6. You will get a confirmation dialogue box that the Action Succeeded. Click OK.

You will get an email on the 1st of each month with a link to the report output. By clicking this link it will open the output in a web browser. It is still possible to login to the staff client and access the output in Output folder.

How to stop or make changes to an existing recurring report? Sometimes you may wish to stop or make changes to a recurring report, e.g. the recurrence interval, generation date, email address to receive completion email, output format/folder or even filter values (such as the number of days overdue). You will need to delete the current report from the report folder, then use the above procedure to set up a new recurring report with the desired changes. Please note that deleting a report also deletes all output associated with it.



Once you have been on Evergreen for a year, you could set up your recurring monthly reports to show comparative data from one year ago. To do this select relative dates of 1 month ago and 13 months ago.

Chapter 128. Template Terminology

Data Types

The central column of the Database Source Browser lists Field Name and Data Type for the selected database table.

View report output [v] Submit

Limit output to 10 Pending Items

No items to display

Limit output to 10 Completed Items

Select	All	None	report	run_time	complete_time	runner	email	folder	error_text	excel_format	html_format	csv_format
<input checked="" type="checkbox"/>			October 2009 circs	2009-11-24 18:00		jeremybuhler		296		t	t	f

Each data type has its own characteristics and uses:

Data Type	Description	Notes
id	Unique number assigned by the database to identify a record	A number that is a meaningful reference for the database but not of much use to a human user. Use in displayed fields when counting records or in filters.
text	Text field	Usually uses the Raw Data transform.
timestamp	Exact date and time	Select appropriate date/time transform. Raw Data includes second and timezone information, usually more than is required for a report.
bool	True or False	Commonly used to filter out deleted item or patron records.
org_unit	A number representing a library, library system, or federation	When you want to filter on a library, make sure that the field name is on an org_unit or id data type.
link	A link to another database table	Link outputs a number that is a meaningful reference for the database but not of much use to a human user. You will usually want to drill further down the tree in the Sources pane and select fields
int	Integer	money

Data Type	Description	Notes
		from the linked table. However, in some instances you might want to use a link field. For example, to count the number of patrons who borrowed items you could do a count on the Patron link data.
int	Integer	money

Field Transforms

A Field Transform tells the reporter how to process a field for output. Different data types have different transform options.

Raw Data. To display a field exactly as it appears in the database use the Raw Data transform, available for all data types.

Count and Count Distinct. These transforms apply to the id data type and are used to count database records (e.g. for circulation statistics). Use Count to tally the total number of records. Use Count Distinct to count the number of unique records, removing duplicates.

To demonstrate the difference between Count and Count Distinct, consider an example where you want to know the number of active patrons in a given month, where "active" means they borrowed at least one item. Each circulation is linked to a Patron ID, a number identifying the patron who borrowed the item. If we use the Count Distinct transform for Patron IDs we will know the number of unique patrons who circulated at least one book (2 patrons in the table below). If instead, we use Count, we will know how many books were circulated, since every circulation is linked to a patron ID and duplicate values are also counted. To identify the number of active patrons in this example the Count Distinct transform should be used.

Title	Patron ID	Patron Name
Harry Potter and the Chamber of Secrets	001	John Doe
Northern Lights	001	John Doe
Harry Potter and the Philosopher's Stone	222	Jane Doe

Output Type. Note that each transform has either an Aggregate or Non-Aggregate output type.

Selecting a Non-Aggregate output type will return one row of output in your report for each row in the database. Selecting an Aggregate output type will group together several rows of the database and return just one row of output with, say, the average value or the total count for that group. Other common aggregate types include minimum, maximum, and sum.

When used as filters, non-aggregate and aggregate types correspond to Base and Aggregate filters respectively. To see the difference between a base filter and an aggregate filter, imagine that you are creating a report to count the number of circulations in January. This would require a base filter to specify the month of interest because the month is a non-aggregate output type. Now imagine that you wish to list all items with more than 25 holds. This would require an aggregate filter on the number of holds per item because you must use an aggregate output type to count the holds.

Chapter 129. Template Enhancements

Documentation URL

You can add a link to local documentation that can help staff create a report template. To add documentation to a report template, click Admin → Local Administration → Reports, and create a new report template. A new field, Documentation URL, appears in the Template Configuration panel. Enter a URL that points to relevant documentation.

The screenshot shows the 'Reports' administration interface. At the top, there are navigation buttons: 'Go Back', 'Reload', and 'Go Forward'. Below this is the 'Database Source Browser' section, which includes a 'Sources' dropdown menu and a 'Field Name' input field. The 'Template Configuration' section is visible below, containing fields for 'Name', 'Description', and 'Documentation URL'. The 'Documentation URL' field is highlighted with a red box and contains the text 'http://docs.evergreen-ils.org/'. To the right of this field is a 'Save' button. At the bottom of the configuration panel, there are tabs for 'Displayed Fields', 'Base Filters', and 'Aggregate Filters'.

The link to this documentation will also appear in your list of report templates.

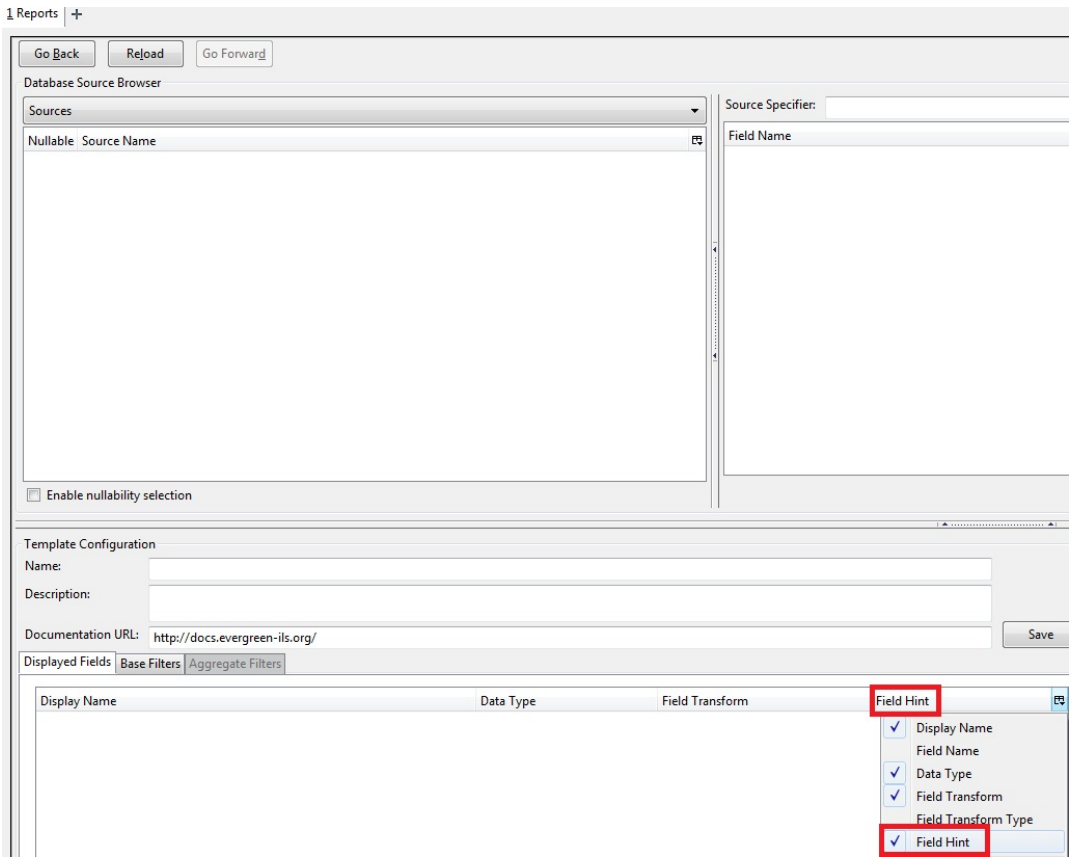
The screenshot shows the 'Reports' administration interface. On the left, there is a 'My Folders' sidebar with a tree view containing 'Templates', 'Circulation', 'Outputs', 'asi', 'Reports', and 'Output'. The main area displays a table of report templates. The table has columns for 'name', 'description', 'docs', and 'create_time'. The 'docs' column is highlighted with a red box and contains the text 'External Documentation'. The table also includes a 'Limit output to: 10' dropdown and a 'Submit' button. The table content is as follows:

Select all rows	name	description	docs	create_time
<input type="checkbox"/>	Count of Circulating Items by Library and Check Out Date		External Documentation	2014-07-21 19:30

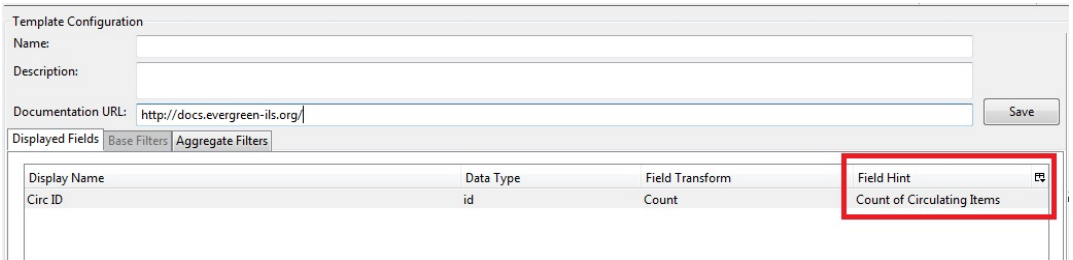
Field Hints

Descriptive information about fields or filters in a report template can be added to the Field Hints portion of the Template Configuration panel. For example, a circulation report template might include the field, Circ ID. You can add content to the Field hints to further define this field for staff and provide a reminder about the type of information that they should select for this field.

To view a field hint, click the Column Picker, and select Field Hint. The column will be added to the display.



To add or edit a field hint, select a filter or field, and click Change Field Hint. Enter text, and click Ok.



Chapter 130. Exporting Report Templates Using phpPgAdmin

Once the data is exported. Database Administrators/Systems Administrators can easily import this data into the templates folder to make it available in the client.

Dump the Entire Reports Template Table

The data exported in this method can create issues importing into a different system if you do not have a matching folder and owner. This is going to export report templates created in your system. The most important fields for importing into the new system are name, description, and data. Data defines the actual structure of the report. The owner and folder fields will unique to the system they were exported from and will have to be altered to ensure they match the appropriate owner and folder information for the new system.

1. Go to the Reporter schema. Report templates are located in the Template table
2. Click on the link to the Template table
3. Click the export button at the top right of the phpPgAdmin screen
4. Make sure the following is selected
 - a. Data Only (checked)
 - b. Format: Select CSV or Tabbed did get the data in a text format
 - c. Download checked
5. Click export button at the bottom
6. A text file will download to your local system

Dump Data with an SQL Statement

The following statement could be used to grab the data in the folder and dump it with admin account as the owner and the first folder in your system.

```
SELECT 1 as owner, name, description, data, 1 as folder FROM reporter.template
```

or use the following to capture your folder names for export

```
SELECT 1 as owner, t.name, t.description, t.data, f.name as folder  
FROM reporter.template t  
JOIN reporter.template_folder f ON t.folder=f.id
```

1. Run the above query

2. Click the download link at the bottom of the page
3. Select the file format (CSV or Tabbed)
4. Check download
5. A text file with the report template data will be downloaded.

Part XIII. Using the Public Access Catalog

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Chapter 131. Introduction

Evergreen has a public OPAC that meets WCAG guidelines (<http://www.w3.org/WAI/intro/wcag>), which helps make the OPAC accessible to users with a range of disabilities. This part of the documentation explains how to use the Evergreen public OPAC. It covers the basic catalog and more advanced search topics. It also describes the “My Account” tools users have to find information and manage their personal library accounts through the OPAC. This section could be used by staff and patrons but would be more useful for staff as a generic reference when developing custom guides and tutorials for their users.

Chapter 132. Using the Public Access Catalog

Basic Search

From the OPAC home, you can conduct a basic search of all materials owned by all libraries in your Evergreen system.

This search can be as simple as typing keywords into the search box and clicking the Search button. Or you can make your search more precise by limiting your search by fields to search, material type or library location.

The Homepage contains a single search box for you to enter search terms. You can get to the Homepage at any time by clicking the Another Search link from the leftmost link on the bar above your search results in the catalogue, or you can enter a search anywhere you see a search box.

You can select to search by:

- **Keyword:** finds the terms you enter anywhere in the entire record for an item, including title, author, subject, and other information.
- **Title:** finds the terms you enter in the title of an item.
- **Journal Title:** finds the terms you enter in the title of a serial bib record.
- **Author:** finds the terms you enter in the author of an item.
- **Subject:** finds the terms you enter in the subject of an item. Subjects are categories assigned to items according to a system such as the Library of Congress Subject Headings.
- **Series:** finds the terms you enter in the title of a multi-part series.



To search an item copy call number, use [Advanced Search: Numeric](#)

Formats

You can limit your search by formats based on MARC fixed field type:

- All Books
- All Music
- Audiocassette music recording
- Blu-ray
- Braille
- Cassette audiobook
- CD Audiobook
- CD Music recording
- DVD
- E-audio
- E-book
- E-video
- Equipment, games, toys
- Kit
- Large Print Book
- Map
- Microform
- Music Score
- Phonograph music recording
- Phonograph spoken recording
- Picture
- Serials and magazines
- Software and video games
- VHS

Libraries

If you are using a catalogue in a library or accessing a library's online catalogue from its homepage, the search will return items for your local library. If your library has multiple branches, the result will display items available at your branch and all branches of your library system separately.

Advanced Search

Advanced searches allow users to perform more complex searches by providing more options. Many kinds of searches can be performed from the Advanced Search screen. You can access by clicking Advanced Search on the catalogue Homepage or search results screen.

The available search options are the same as on the basic search. But you may use one or many of them simultaneously. If you want to combine more than three search options, use Add Search Row button to add more search input rows. Clicking the X button will close the search input row.

Sort Results

By default, the search results are in order of greatest to least relevance, see [Order of Results](#). In the sort results menu you may select to order the search results by relevance, title, author, or publication date.

Search Library

The current search library is displayed under Search Library drop down menu. By default it is your library. The search returns results for your local library only. If your library system has multiple branches, use the Search Library box to select different branches or the whole library system.

Limit to Available

This checkbox is at the bottom line of Search Library. Select Limit to Available to limit results to those titles that have items with a circulation status of "available" (by default, either Available or Reshelving).

Exclude Electronic Resources

This checkbox is below Limit to Available. Select Exclude Electronic Resources to limit results to those bibliographic records that do not have an "o" or "s" in the Item Form fixed field (electronic forms) and overrides other form limiters.

This feature is optional and will not appear for patrons or staff until enabled.



To display the Exclude Electronic Resources checkbox in the advance search page and search results, set the `ctx.exclude_electronic_checkbox` setting in `config.tt2` to 1.

Search Filter

You can filter your search by Item Type, Item Form, Language, Audience, Video Format, Bib Level, Literary Form, Search Library, and Publication Year. Publication year is inclusive. For example, if you set Publication Year Between 2005 and 2007, your results can include items published in 2005, 2006 and 2007.

For each filter type, you may select multiple criteria by holding down the CTRL key as you click on the options. If nothing is selected for a filter, the search will return results as though all options are selected.

Search Filter Enhancements

Enhancements to the Search Filters now makes it easier to view, remove, and modify search filters while viewing search results in the Evergreen OPAC. Filters that are selected while conducting an advanced search in the Evergreen OPAC now appear below the search box in the search results interface.

For example, the screenshot below shows a Keyword search for "violin concerto" while filtering on Item Type: Musical sound recording and Shelving Location: Music.

The screenshot displays the search interface with the following elements:

- Search Input:** A search box containing the text "violin concerto" with a dropdown menu set to "Keyword" and a "Contains" operator. Below it are two additional search rows for "Title" and "Author", both with "Contains" operators.
- Buttons:** "Search" and "Clear Form" buttons are located below the search input.
- Search Filters:** A grid of filter categories with dropdown menus:
 - Item Type:** Includes "Musical sound recording" (highlighted with a red box).
 - Item Form:** Includes "Electronic".
 - Language:** Includes "Spanish".
 - Audience:** Includes "Adult".
 - Video Format:** Includes "Beta".
 - Bib Level:** Includes "Monographic component".
 - Literary Form:** Includes "Fiction (not further specified)".
 - Shelving Location:** Includes "Music" (highlighted with a red box).
- Search Library:** A dropdown menu set to "Apex Branch".
- Publication Year:** A dropdown menu set to "Is".
- Sort Results:** A dropdown menu set to "Sort by Relevance".
- Checkboxes:** Three checkboxes are present: "Limit to Available", "Exclude Electronic Resources", and "Group Formats and Editions", all of which are currently unchecked.

In the search results, the Item Type and Shelving Location filters appear directly below the search box.

The screenshot displays a library search interface. At the top, there are links for "Search the Catalog", "Advanced Search", and "Browse the Catalog". Below these is a search bar containing "violin concerto", with a "Type: Keyword" dropdown and a "Format: All Formats" dropdown. A "Library: Apex Branch" dropdown and a "Search" button are also present. Below the search bar, a "Filtered by:" section shows two active filters: "Item Type Musical sound recording" and "Locations Music", each with an "X" icon to remove it. A link "[Refine My Original Search]" is located below the filters. A navigation bar contains buttons for "Another Search", "Advanced Search", a "Sort by" dropdown set to "Sort by Relevance", a "Show More Details" button, and a "Limit to Available Items" checkbox. Below the navigation bar are three checkboxes: "Group Formats and Editions", "Show Results from All Libraries", and "Exclude Electronic Resources". The "Search Results" section shows "Results 1 - 2 of about 2 (page 1 of 1)". On the left, a "Recent searches" sidebar lists "Naxos Music Library" (2), "CBC" (1), and "Simax Classics" (1). The main results list two items: 1. "Shostakovich, D Violin Concerto No. 1 / BACH, J.S.: Violin Concerto in E major (Tellefsen)", a musical sound recording from 2009, with call number #701591 and availability at Equinox Consortium, Casey Library System, and Apex Branch. 2. "Prokofiev / Violin Concertos", a musical sound recording from 2006, with call number #701286 and availability at Equinox Consortium, Casey Library System, and Apex Branch. Both items have a "Place Hold" button.

Each filter can be removed by clicking the X next to the filter name to modify the search within the search results screen. Below the search box on the search results screen, there is also a link to Refine My Original Search, which will bring the user back to the advanced search screen where the original search parameters selected can be viewed and modified.

Numeric Search

If you have details on the exact item you wish to search for, use the Numeric Search tab on the advanced search page. Use the drop-down menu to select your search by ISBN, ISSN, Bib Call Number, Call Number (Shelf Browse), LCCN, TCN, or Item Barcode. Enter the information and then click the Search button.

Expert Search

If you are familiar with MARC cataloging, you may search by MARC tag in the Expert Search option on the left of the screen. Enter the three-digit tag number, the subfield if relevant, and the value or

text that corresponds to the tag. For example, to search by publisher name, enter **260 b Random House**. To search several tags simultaneously, use the Add Row option. Click Submit to run the search.



Use the MARC Expert Search only as a last resort, as it can take much longer to retrieve results than by using indexed fields. For example, rather than running an expert search for "245 a Gone with the wind", simply do a regular title search for "Gone with the wind".

Boolean operators

Classic search interfaces (that is, those used primarily by librarians) forced users to learn the art of crafting search phrases with Boolean operators. To a large extent this was due to the inability of those systems to provide relevancy ranking beyond a "last in, first out" approach. Thankfully, Evergreen, like most modern search systems, supports a rather sophisticated relevancy ranking system that removes the need for Boolean operators in most cases.

By default, all terms that have been entered in a search query are joined with an implicit **AND** operator. Those terms are required to appear in the designated fields to produce a matching record: a search for golden compass will search for entries that contain both golden and compass.

Words that are often considered Boolean operators, such as AND, OR, and NOT, are not special in Evergreen: they are treated as just another search term. For example, a title search for **golden and compass** will not return the title Golden Compass.

However, Evergreen does support Boolean searching for those rare cases where you might require it, using symbolic operators as follows:

Table 132.1. Boolean symbolic operators

Operator	Symbol	Example
AND	&&	a && b
OR	 	a b
NOT	-term	a -b

Search Tips

Evergreen tries to approach search from the perspective of a major search engine: the user should simply be able to enter the terms they are looking for as a general keyword search, and Evergreen should return results that are most relevant given those terms. For example, you do not need to enter author's last name first, nor do you need to enter an exact title or subject heading. Evergreen

is also forgiving about plurals and alternate verb endings, so if you enter dogs, Evergreen will also find items with dog.

The search engine has no stop words (terms are ignored by the search engine): a title search for **to be or not to be** (in any order) yields a list of titles with those words.

- Don't worry about white space, exact punctuation, or capitalization.
 1. White spaces before or after a word are ignored. So, a search for [**golden compass**] gives the same results as a search for [**golden compass**].
 2. A double dash or a colon between words is reduced to a blank space. So, a title search for golden:compass or golden — compass is equivalent to golden compass.
 3. Punctuation marks occurring within a word are removed; the exception is `_`. So, a title search for gol_den com_pass gives no result.
 4. Diacritical marks and solitary `&` or `|` characters located anywhere in the search term are removed. Words or letters linked together by `.` (dot) are joined together without the dot. So, a search for go|lden & comp.ass is equivalent to golden compass.
 5. Upper and lower case letters are equivalent. So, Golden Compass is the same as golden compass.
- Enter your search words in any order. So, a search for compass golden gives the same results as a search for golden compass. Adding more search words gives fewer but more specific results.
 - This is also true for author searches. Both David Suzuki and Suzuki, David will return results for the same author.
- Use specific search terms. Evergreen will search for the words you specify, not the meanings, so choose search terms that are likely to appear in an item description. For example, the search luxury hotels will produce more relevant results than nice places to stay.
- Search for an exact phrase using double-quotes. For example "golden compass".
 - The order of words is important for an exact phrase search. golden compass is different than compass golden.
 - White space, punctuation and capitalization are removed from exact phrases as described above. So a phrase retains its search terms and its relative order, but not special characters and not case.
 - Two phrases are joined by and, so a search for "golden compass" "dark materials" is equivalent to golden compass and dark materials.
- Truncation Words may be right-hand truncated using an asterisk. Use a single asterisk `*` to truncate any number of characters. (example: environment* agency)

Search Methodology

Stemming

A search for dogs will also return hits with the word dog and a search for parenting will return results with the words parent and parental. This is because the search uses stemming to help return the most relevant results. That is, words are reduced to their stem (or root word) before the search is performed.

The stemming algorithm relies on common English language patterns - like verbs ending in ing - to find the stems. This is more efficient than looking up each search term in a dictionary and usually produces desirable results. However, it also means the search will sometimes reduce a word to an incorrect stem and cause unexpected results. To prevent a word or phrase from stemming, put it in double-quotes to force an exact search. For example, a search for **parenting** will also return results for **parental**, but a search for **"parenting"** will not.

Understanding how stemming works can help you to create more relevant searches, but it is usually best not to anticipate how a search term will be stemmed. For example, searching for **gold compass** does not return the same results as **golden compass**, because **-en** is not a regular suffix in English, and therefore the stemming algorithm does not recognize gold as a stem of golden.

Order of Results

By default, the results are listed in order of relevance, similar to a search engine like Google. The relevance is determined using a number of factors, including how often and where the search terms appear in the item description, and whether the search terms are part of the title, subject, author, or series. The results which best match your search are returned first rather than results appearing in alphabetical or chronological order.

In the Advanced Search screen, you may select to order the search results by relevance, title, author, or publication date before you start the search. You can also re-order your search results using the Sort Results dropdown list on the search result screen.

Search URL

When performing a search or clicking on the details links, Evergreen constructs a GET request url with the parameters of the search. The url for searches and details in Evergreen are persistent links in that they can be saved, shared and used later.

Here is a basic search URL structure:

```
[hostname]/eg/opac/results?query=[search term]&qtype=keyword&fi%3Aitem_type=&locg=[location id]
```

locg Parameter

This is the id of the search location. It is an integer and matches the id of the location the user selected in the location drop down menu.

qtype Parameter

The qtype parameter in the URL represents the search type values and represent one of the following search or request types:

- Keyword
- Title
- Journal Title
- Author
- Subject
- Series
- Bib Call Number

These match the options in the search type drop-down box.

Sorting

The sort parameter sorts the results on one of these criteria.

- **sort=pubdate** (publication date) - chronological order
- **sort=titlesort** - Alphabetical order
- **sort=authorsort** - Alphabetical order on family name first

To change the sort direction of the results, the sort parameter value has the ".descending" suffix added to it.

- **sort=titlesort.descending**
- **sort=authorsort.descending**
- **sort=pubdate.descending**

In the absence of the sort parameter, the search results default to sorting by relevance.

Search Results

The search results are a list of relevant works from the catalogue. If there are many results, they are divided into several pages. At the top of the list, you can see the total number of results and go back and forth between the pages by clicking the links that say Previous or Next on top or bottom of the list. You can also click on the adjacent results page number listed. These page number links allow you to skip to that results page, if your search results needed multiple pages to display. Here is an example:

The screenshot shows a search interface with the following elements:

- Search Filters:**
 - Buttons: **Another Search**, **Advanced Search**, **Show More Details**, **Limit to Available Items**
 - Sort by: **Sort by Relevance** (dropdown)
 - Additional filters: **Group Formats and Editions**, **Show Results from All Libraries**, **Exclude Electronic Resources**
- Search Results:** Results 1 - 10 of about 271 (page 1 of 28) | 1 2 3 4 5 6 7 8 | [Next](#)
- Facets:**
 - Personal Author:**
 - [Shostakovich, Dmitrii Dmitrievich 1906-1975](#) (57)
 - [Mozart, Wolfgang Amadeus 1756-1791](#) (11)
 - [Brahms, Johannes 1833-1897](#) (6)
 - [Bartók, Béla 1881-1945](#) (4)
 - [Beethoven, Ludwig van 1770-1827](#) (4)
 - Corporate Author:**
 - [New England Conservatory Philharmonia](#) (4)
- Search Results List:**
 1. [Shostakovich Violin Concerto No. 1 / TCHAIKOVSKY : Violin Concerto.](#) Musical Sound Recording (Unknown Format) ([2008])

Call number:
1 of 1 copy available at Example Consortium.
 2. [Shostakovich, D. Piano Concerto No. 1 / LISZT, F.: Piano Concerto No. 1 / PROKOFIEV, S.: Piano Concerto No. 1 \(Salle, Gulbenkian Orchestra, Foster\).](#) Musical Sound Recording (Unknown Format) ([2010])

Call number:
1 of 1 copy available at Example Consortium.
 3. [Shostakovich Cello Concerto No. 2 / PROKOFIEV : Symphony-Concerto \(Harrell\).](#) Musical Sound Recording (Unknown Format) ([2008])

Brief information about the title, such as author, edition, publication date, etc. is displayed under each title. The icons beside the brief information indicate formats such as books, audio books, video recordings, and other formats. If you hover your mouse over the icon, a text explanation will show up in a small pop-up box.

Clicking a title goes to the title details. Clicking an author searches all works by the author. If you want to place a hold on the title, click Place Hold beside the format icons.

On the top right, there is a Limit to Available checkbox. Checking this box will filter out those titles with no available copies in the library or libraries at the moment. Usually you will see your search results are re-displayed with fewer titles.

When enabled, under the Limit to Available checkbox, there is an Exclude Electronic Resources checkbox. Checking this box will filter out materials that are cataloged as electronic in form.

The Sort by dropdown list is found at the top of the search results, beside the Show More Details link. Clicking an entry on the list will re-sort your search results accordingly.

Facets: Subjects, Authors, and Series

At the left, you may see a list of Facets of Subjects, Authors, and Series. Selecting any one of these links filters your current search results using that subject, author, or series to narrow down your

current results. The facet filters can be undone by clicking the link a second time, thus returning your original results before the facet was activated.

Search Results Results 1 - 10

Personal Author	More
Bartók, Béla 1881-1945	(2)
Beethoven, Ludwig van 1770-1827	(2)
Brahms, Johannes 1833-1897	(2)
Carter, Elliott 1908-	(2)
Mozart, Wolfgang Amadeus 1756-1791	(2)

Topic Subject	More
Concertos (Violin)	(15)
Concertos (Piano)	(2)
Music	(2)
Suites (Orchestra)	(2)
Ballets	(1)

Series Title	
Columbia Masterworks	(1)
Digital Classics	(1)
Great recordings of the century	(1)
Hawkes Pocket Scores : 710	(1)
Student composers' concert	(1)

Availability

The number of available copies and total copies are displayed under each search result's call number. If you are using a catalogue inside a library or accessing a library's online catalogue from

its homepage, you will see how many copies are available in the library under each title, too. If the library belongs to a multi-branch library system you will see an extra row under each title showing how many copies are available in all branches.

for violin Keyword in Example Consortium Search

Advanced Search Sort by Sort by Relevance Show More Details Limit to available items

1 - 10 of 25 (page 1 of 3) 1 2 3 Next

- 1. **Violin concerto**
Penderecki, Krzysztof, 1933- 1979.
Call number: 780 B92
27 of 31 copies available at Example Consortium.
- 2. **Violin concerto no. 2 ; Six duos (from 44 Duos)**
Bartók, Béla, 1881-1945. 1966
Call number: 780 B15
27 of 32 copies available at Example Consortium.

for violin Keyword in Example Branch 1 Search

Advanced Search Sort by Sort by Relevance Show More Details Limit to available items

1 - 10 of 25 (page 1 of 3) 1 2 3 Next

- 1. **Violin concerto**
Penderecki, Krzysztof, 1933- 1979.
Call number: 780 B92
27 of 31 copies available at Example Consortium.
12 of 14 copies available at Example System 1.
6 of 7 copies available at Example Branch 1.
- 2. **Violin concerto no. 2 ; Six duos (from 44 Duos)**
Bartók, Béla, 1881-1945. 1966
Call number: 780 B15
27 of 32 copies available at Example Consortium.
13 of 15 copies available at Example System 1.
7 of 8 copies available at Example Branch 1.


You may also click the Show More Details link at the top of the results page, next to the Limit to available items check box, to view each search result's copies' individual call number, status, and shelving location.

Viewing a record

Click on a search result's title to view a detailed record of the title, including descriptive information, location and availability, current holds, and options for placing holds, add to my list, and print/email.

Violin concerto


[Penderecki, Krzysztof, 1933-](#) (Author).

 Musical Sound Recording (Unknown Format)

Electronic resources

[Link text here](#) - Public note here

 Place Hold

 Add to my list

 Print / Email

 Permalink


Available copies

Current holds

- 26 copies at Example Consortium.
- 1 current hold with 31 total copies.

Location	Call Number / Copy Notes	Barcode	Shelving Location	Status	Due Date
Example Branch 1	780 B92 (Text)	CONC40000628	Stacks	Available	-
Example Branch 1	780 B92 (Text)	CONC41000628	Stacks	Available	-
Example Branch 1	ML 2533 B34 C92 (Text)	CONC40000128	Stacks	Checked out	05/12/2015
Example Branch 1	ML 2533 B34 C92 (Text)	CONC41000128	Stacks	Available	-
Example Branch 1	ML 2533 B34 C92 (Text)	CONC42000128	Stacks	Available	-
Example Branch 1	ML 2533 B34 C92 (Text)	CONC43000128	Stacks	Available	-
Example Branch 1	ML 2533 B34 C92 (Text)	CONC44000128	Stacks	Available	-
Example Branch 2	780 A92 (Text)	CONC50000728	Stacks	Available	-
Example Branch 2	780 A92 (Text)	CONC51000728	Stacks	Available	-
Example Branch 2	ML1263F92 (Text)	CONC50000228	Stacks	Checked out	04/28/2015

[Next 10 »](#)

 Show more copies

Record details

- **Physical Description:** 1 sound disc (37 min.) : 33 1/3 rpm, stereo.
- **Publisher:** New York, NY : Columbia [Records], 1979.

Content descriptions

General Note: Program notes by M.A. Feldman.

Search for related items by subject

Subject: [Concertos \(Violin\)](#)

Search for related items by series

- [Columbia Masterworks](#)

Details

The record shows details such as the cover image, title, author, publication information, and an abstract or summary, if available.

Near the top of the record, users can easily see the number of copies that are currently available in the system and how many current holds are on the title.

If there are other formats and editions of the same work in the database, links to those alternate formats will display. The formats used in this section are based on the configurable catalog icon formats.

Ready player one / Ernest Cline.

[Cline, Ernest](#) (Author).



 Book

Available copies

- 18 of 18 copies available at Example Consortium. ([Show](#))
- 12 of 12 copies available at Example System 1. ([Show](#))
- 10 of 10 copies available at Example Branch 1.

Current holds

0 current holds with 18 total copies.

View other formats and editions

[Book \(2\)](#)

[English \(4\)](#)

[E-audio \(1\)](#)

[Large Print Book \(1\)](#)

[View all formats and editions \(4\)](#)

The Record Details view shows how many copies are at the library or libraries you have selected, and whether they are available or checked out. It also displays the Call number and Copy Location for locating the item on the shelves. Clicking on Text beside the call number will allow you to send the item's call number by text message, if desired. Clicking the location library link will reveal information about owning library, such as address and open hours.

Below the local details you can open up various tabs to display more information. You can select Reviews and More to see the book's summaries and reviews, if available. You can select Shelf Browser to view items appearing near the current item on the library shelves. Often this is a good way to browse for similar items. You can select MARC Record to display the record in MARC format. If your library offers the service, clicking on Awards, Reviews, and Suggested Reads will reveal that additional information.



Copies are sorted by (in order): org unit, call number, part label, copy number, and barcode.

Placing Holds

Holds can be placed on either title results or search results page. If the item is available, it will be pulled from the shelf and held for you. If all copies at your local library are checked out, you will be placed on a waiting list and you will be notified when items become available.

On title details page, you can select the Place Hold link in the upper right corner of the record to reserve the item. You will need your library account user name and password. You may choose to be notified by phone or email.

In the example below, the phone number in your account will automatically show up. Once you select the Enable phone notifications for this hold checkbox, you can supply a different phone number for this hold only. The notification method will be selected automatically if you have set it up in your account references. But you still have a chance to re-select on this screen. You may also suspend the hold temporarily by checking the Suspend box. Click the Help beside it for details.

You can view and cancel a hold at anytime. Before your hold is captured, which means an item has been held waiting for you to pick up, you can edit, suspend or activate it. You need log into your

patron [My Account](#) to do it. From your account you can also set up a Cancel if not filled by date for your hold. Cancel if not filled by date means after this date, even though your hold has not been fulfilled you do not need the item anymore.

Place Hold

Harry Potter and the goblet of fire / by J.K. Rowling ; illustrations by Mary GrandPré.

Pickup location:

Notify when hold is ready for pickup?

Yes, by Email

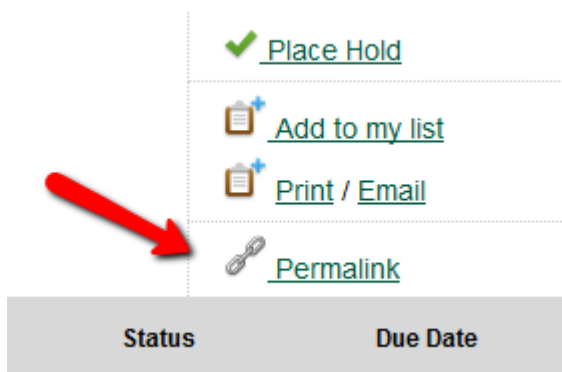
Email Address:

Yes, by Phone

Phone Number:

Permalink

The record summary page offers a link to a shorter permalink that can be used for sharing the record with others. All URL parameters are stripped from the link with the exception of the locg and copy_depth parameters. Those parameters are maintained so that people can share a link that displays just the holdings from one library/system or displays holdings from all libraries with a specific library's holdings floating to the top.



SMS Call Number

If configured by the library system administrator, you may send yourself the call number via SMS message by clicking on the Text link, which appears beside the call number.

Available copies

- 26 copies at Example Consortium.

Current holds

1 current hold with 31 total copies.

Location	Call Number / Copy Notes	Barcode
Example Branch 1	780 B92 (Text)	CONC40000628
Example Branch 1	780 B92 (Text)	CONC41000628
Example Branch 1	ML 2533 B34 C92 (Text)	CONC40000128
Example Branch 1	ML 2533 B34 C92 (Text)	CONC41000128
Example Branch 1	ML 2533 B34 C92 (Text)	CONC42000128
Example Branch 1	ML 2533 B34 C92 (Text)	CONC43000128

See the [Sending Copy Details via Text Message](#) section of the documentation for more information on how to use this feature.



Carrier charges may apply when using the SMS call number feature.

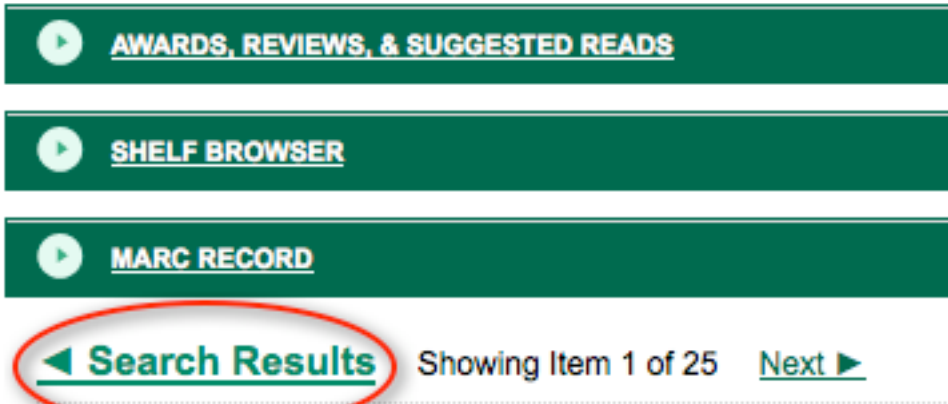
Going back

When you are viewing a specific record, you can always go back to your title list by clicking the link Search Results on the top right or left bottom of the page.

Subject: [Concertos \(Violin\)](#)

Search for related items by series

- [Columbia Masterworks](#)



You can start a new search at any time by entering new search terms in the search box at the top of the page, or by selecting the Another Search or Advanced Search links in the left-hand sidebar.

My Account

Logging In

Logging into your account from the online catalog:

1. Open a web browser and navigate to your Evergreen OPAC.
2. Click My Account .
3. Enter your Username and Password.
 - By default, your username is your library card number.
 - Your password is a 4 digit code provided when your account was created. If you have forgotten your password, contact your local library to have it reset or use the the section called [Password Reset](#) tool.
4. Click Login.

- At the first login, you may be prompted to change your password.
- If you updated your password, you must enter your Username and Password again.

5. Your Account Summary page displays.

To view your account details, click one of the My Account tabs.

To start a search, enter a term in the search box at the top of the page and click Search!



If using a public computer be sure to log out!

Password Reset

To reset your password:

1. click on the Forgot your password? link located beside the login button.
2. Fill in the Barcode and User name text boxes.
3. A message should appear indicating that your request has been processed and that you will receive an email with further instructions.
4. An email will be sent to the email addressed you have registered with your Evergreen library. You should click on the link included in the email to open the password reset page. Processing time may vary.



You will need to have a valid email account set up in Evergreen for you to reset your password. Otherwise, you will need to contact your library to have your password reset by library staff.

5. At the reset email page you should enter the new password in the New password field and re-enter it in the Re-enter new password field.
6. Click Submit.
7. A message should appear on the page indicating that your password has been reset.
8. Login to your account with your new password.

Account Summary

In the My Account → Account Summary page, you can see when your account expires and your total number of items checked out, items on hold, and items ready for pickup. In addition, the Account Summary page lists your current fines and payment history.

Items Checked Out

Users can manage items currently checked out, like renew specific items. Users can also view overdue items and see how many renewals they have remaining for specific item.

As of Evergreen version 2.9, sorting of selected columns is available in the Items Checked Out and Check Out History pages. Clicking on the appropriate column heads sorts the contents from "ascending" to "descending" to "no sort". (The "no sort" restores the original list as presented in the screen.) The sort indicator (an up or down arrow) is placed to the right of the column head, as appropriate.

Within Items Checked Out → Current Items Checked Out, the following column headers can be sorted: Title, Author, Renewals Left, Due Date, Barcode, and Call Number.

Within Items Checked Out → Check Out History, the following column headers can be sorted: Title, Author, Checkout Date, Due Date, Date Returned, Barcode, and Call Number



To protect patron privacy, the Check Out History will be completely blank unless the patron has previously opted in under the Account Preferences tab, in the Search and History Preferences area.

Holds

From My Account, patrons can see Items on Hold and Holds History and manage items currently being requested. In Holds → Items on Hold, the content shown can be sorted by clicking on the following column headers: Title, Author, and Format (based on format name represented by the icon).

Actions include:

- Suspend - set a period of time during which the hold will not become active, such as during a vacation
- Activate - manually remove the suspension
- Cancel - remove the hold request

Edit options include:

- Change pick up library

- Change the Cancel unless filled by date, also known as the hold expiration date
- Change the status of the hold to either active or suspended.
- Change the If suspended, activate on date, which reactivates a suspended hold at the specified date

To edit items on hold:

1. Login to My Account, click the Holds tab.
2. Select the hold to modify.
3. Click Edit for selected holds.
4. Select the change to make and follow the instructions.



To protect patron privacy, the Holds History will be completely blank unless the patron has previously opted in under the Account Preferences tab, in the Search and History Preferences area.

Account Preferences

From here you can manage display preferences including your Personal Information, Notification Preferences, and Search and History Preferences. Additional static information, such as your Account Expiration Date, can be found under Personal Information.

For example:

- Personal Information
 - change password - allows patrons to change their password
 - change email address - allows patrons to change their email address.
- Notification Preferences
 - Notify by Email by default when a hold is ready for pickup?
 - Notify by Phone by default when a hold is ready for pickup?
 - Default Phone Number
- Search and History Preferences
 - Search hits per page
 - Preferred pickup location

- Keep history of checked out items?
- Keep history of holds?



Turning off the Keep history of checked out items? or Keep history of holds? features will permanently delete all entries in the relevant patron screens. After this is unchecked, there is no way for a patron to recover those data.

After changing any of these settings, you must click Save to store your preferences.

Patron Messages

The Patron Message Center provides a way for libraries to communicate with patrons through messages that can be accessed through the patron's OPAC account. Library staff can create messages manually by adding an OPAC visible Patron Note to an account. Messages can also be automatically generated through an Action Trigger event. Patrons can access and manage messages within their OPAC account. See Circulation - Patron Record - Patron Message Center for more information on adding messages to patron accounts.

Viewing Patron Messages in the OPAC

Patrons will see a new tab for Messages in their OPAC account, as well as a notification of Unread Messages in the account summary.

EVERGREEN
Spencer Graham Messages² My Account My Lists Logout

1 Checked Out 1 On Hold 0 Ready for Pickup \$6.00 Fines

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)

Search: Type: Keyword Format: All Formats

Library: Apex Branch Search

Account Summary **Messages** Items Checked Out Holds Account Preferences My Lists

Account Summary

Items Currently Checked out (1) [View All](#)

Items Currently on Hold (1) [View All](#)

Items ready for pickup (0) [View All](#)

Fines: \$6.00 [Pay Fines](#)

Fines Payments

Title	Author	Checkout Date	Due Date	Date Returned	Balance Owed	Pay Fines
The jasmine moon murder	Childs, Laura	05/15/2013	05/30/2013	(fines accruing)	\$5.00	<input checked="" type="checkbox"/>

Patrons will see a list of the messages from the library by clicking on the Messages tab.

EVERGREEN

Spencer Graham Messages² My Account My Lists Logout

1 Checked Out 1 On Hold 0 Ready for Pickup \$6.00 Fines

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)

Search: Type: Keyword Format: All Formats Library: Apex Branch

Search

Account Summary Messages Items Checked Out Holds Account Preferences My Lists

Messages

Marked 1 message(s) as unread.

-- Actions for selected messages -- Go

<input type="checkbox"/>	Date	Library	Subject
<input type="checkbox"/>	05/11/2015	Apex Branch	Lost keys
<input type="checkbox"/>	04/23/2015	Apex Branch	Lost backpack?

Patrons can click on a message Subject to view the message. After viewing the message, it will automatically be marked as read. Patrons have the options to mark the message as unread and to delete the message.

EVERGREEN

Spencer Graham Messages¹ My Account My Lists Logout

1 Checked Out 1 On Hold 0 Ready for Pickup \$6.00 Fines

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)

Search: Type: Keyword Format: All Formats Library: Apex Branch

Search

Account Summary Messages Items Checked Out Holds Account Preferences My Lists

Message

[Return to Message List](#) [Delete](#) [Mark Unread](#)

Date 04/23/2015
Library Apex Branch
Subject Lost backpack?
Message A backpack was left at the library. Please call the library at 555-555-5555 to confirm that it is your or please stop by. [EJ 2015-04-23 @ APEX]

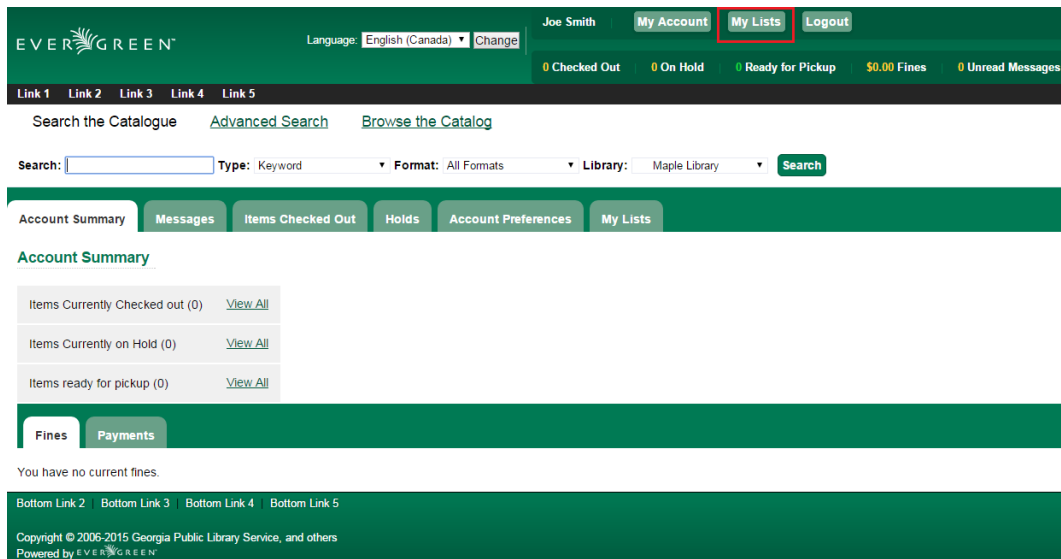


Patron deleted messages will still appear in the patron's account in the staff client under Other → Message Center.

Chapter 133. My Lists



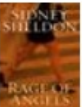


The My Lists feature replaces the bookbag feature that was available in versions prior to 2.2. The My Lists feature is a part of the Template Toolkit OPAC that is available in version 2.2. This feature enables you to create temporary and permanent lists; create and edit notes for items in lists; place holds on items in lists; and share lists via RSS feeds and CSV files.

There is now a direct link to My Lists from the My Account area in the top right part of the screen. This gives users the ability to quickly access their lists while logged into the catalog.



Create New Lists

- 1) Log in to your account in the OPAC.
- 2) Search for titles.
- 3) Choose a title to add to your list. Click Add to My List.

4.	 Justice denied <i>Tanenbaum, Robert.</i> 2010, c1994. 0 of 0 copies available		Place Hold Add to my list
5.	 Rage of angels <i>Sheldon, Sidney.</i> 2010. 0 of 0 copies available		Place Hold Add to my list
6.	Irresistible impulse <i>Tanenbaum, Robert.</i> 2010, c1997. 0 of 0 copies available		Place Hold Add to my list

4) Scroll up to the gray row on top of the Search Results. Click View My List

5) Items are added to a temporary list. Your temporary list appears at the bottom of the screen.

6) The Actions for these items menu on the right side of the screen demonstrates the actions that you can apply to this list. You can place holds on items in your temporary list; remove items from the list; or move selected items to a permanent list.

To place a hold or remove items from the list, check the box adjacent to the title of the item, and select the desired function.

To move selected items into an existing list, check the box adjacent to the title, and highlight the list in which you will store the item.

Temporary List



7) If you do not want to place the item into an existing list, you can create a new list to contain the item. Enter the name of the new list, and, if desired, enter a description.

Create new list

Enter the name of the new list: Share this list? ?

List description (optional):

8) Click Submit.

9) The new list appears beneath the temporary list.

10) Select the title(s) of the items that you want to add to the list, and click Actions for these items. Select the permanent list that you created from the drop down menu.

Temporary List



11) Click Go.

12) Your existing lists appear. Click on a list to view the items in the list. You can sort the items in the permanent list. You can also add, edit, and remove notes.

13) Click Edit to add or edit a note.

14). Enter desired notes, and click Save Notes.

<input type="checkbox"/> TITLE	AUTHOR(S)	NOTES
<input type="checkbox"/> Rage of angels	Sheldon, Sidney	Recommend to Sarah
<input type="checkbox"/> Justice denied	Tanenbaum, Robert	Favorite legal thriller

15) You can keep your list private, or you can share it. To share your list, click Share, and click the orange RSS icon to share through an RSS reader. You can also click HTML View to share your list as an HTML link.

You can also download your list into a CSV file by clicking Download CSV.

Hide Delete List Download CSV RSS HTML View

16) When you no longer need a list, click Delete List.

Local Call Number in My Lists

When a title is added to a list in the TPAC, a local call number will be displayed in the list to assist patrons in locating the physical item. Evergreen will look at the following locations to identify the most relevant call number to display in the list:

- 1) Physical location - the physical library location where the search takes place
- 2) Preferred library - the Preferred Search Location, which is set in patron OPAC account Search and History Preferences, or the patron's Home Library
- 3) Search library - the search library or org unit that is selected in the OPAC search interface

The call number that is displayed will be the most relevant call number to the searcher. If the patron is searching at the library, Evergreen will display a call number from that library location. If the patron is not searching at a library, but is logged in to their OPAC account, Evergreen will display a call number from their Home Library or Preferred Search Location. If the patron is not searching at the library and is not signed in to their OPAC account, then Evergreen will display a call number from the org unit, or library, that they choose to search in the OPAC search interface.

The local call number and associated library location will appear in the list:

EVERGREEN Language: English (Canada) Change Joe Smith My Account My Lists Logout

0 Checked Out 0 On Hold 0 Ready for Pickup \$0.00 Fines 0 Unread Messages

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalogue [Advanced Search](#) [Browse the Catalog](#)

Search: Type: Keyword Format: All Formats Library: Maple Library Search

Account Summary Messages Items Checked Out Holds Account Preferences My Lists

Create New List

Enter the name of the new list: Share this list? No Submit Cancel

List description (optional):

My Existing Lists

Saved Lists

[To read 2015](#) Share Delete List Download CSV Make Default List

Sort list items by: Title: A to Z Sort Name: To read 2015 Description: Save changes to name or description? Save

<input type="checkbox"/> Title	Author(s)	Local Call Number	Publication Date	Format	Notes Edit	Place hold	Go
<input type="checkbox"/> A Game of Thrones	Martin, George R. R.		2011	Book			
<input type="checkbox"/> A storm of swords, book three of a song of ice and fire	Martin, George R. R.	FIC MAR (Maple Library)	2011, c2000	Book			
<input type="checkbox"/> A clash of kings	Martin, George R. R.	FIC MAR (Maple Library)	2000, c1999	Book			

My Lists Preferences

Patrons can adjust the number of lists or list items displayed in a page. This setting can be found under the Account Preferences tab, in the My Lists Preferences section.

Chapter 134. Kids OPAC

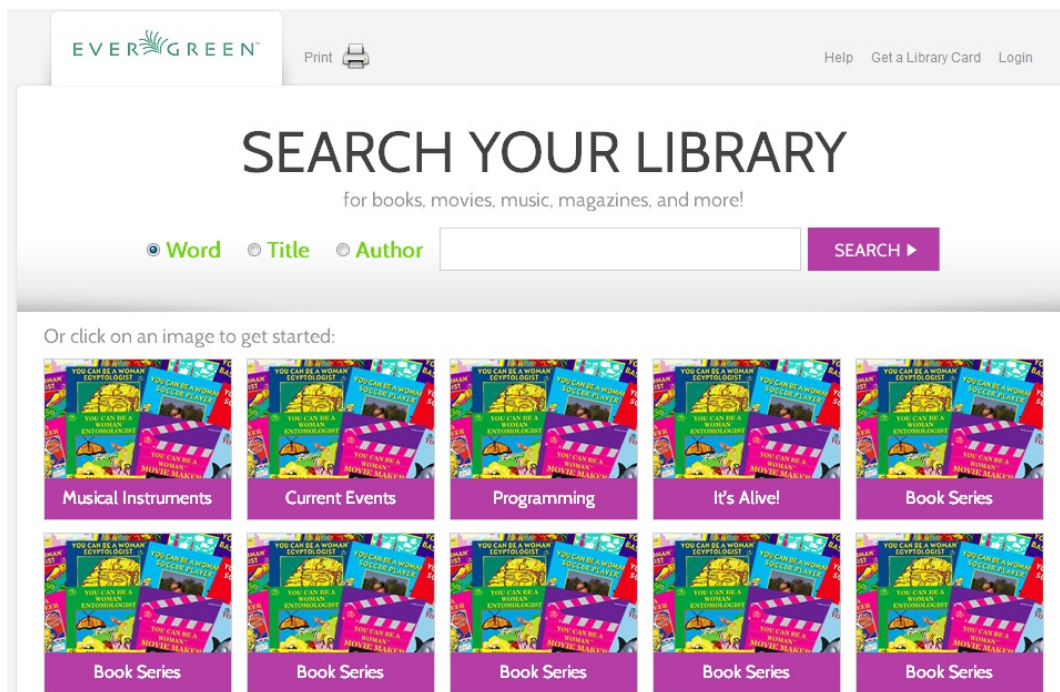
The Kids OPAC (KPAC) is a public catalog search that was designed for children and teens. Colorful menu items, large buttons, and simple navigation make this an appealing search interface for kids. Librarians will appreciate the flexible configuration of the KPAC. Librarians can create links to canned search results for kids and can apply these links by branch. The KPAC uses the same infrastructure as the Template Toolkit OPAC (TPAC), the adult catalog search, so you can easily extend the KPAC using the code that already exists in the TPAC. Finally, third party content, such as reader reviews, can be integrated into the KPAC.

Choose a Skin

Two skins, or design interfaces, have been created for the KPAC. The KPAC was designed to run multiple skins on a single web server. A consortium, then, could allow each library system to choose a skin for their patrons.

Default Skin:

In this skin, the search bar is the focal point of the top panel and is centered on the screen. The search grid appears beneath the search bar. Help and Login links appear at the top right of the interface. You can customize the appearance and position of these links with CSS. After you login, the user name is displayed in the top right corner, and the Login link becomes an option to Logout.



Alternate Monster Skin:

In this skin, the search bar shares the top panel with a playful monster. The search grid appears beneath the search bar. Help and Login links appear in bold colors at the top right of the interface although you can customize these with CSS. After you login, the Login button disappears.



OR [click on an image to get started:](#)



Search the Catalog

You can search the catalog using only the search bar, the search grid, or the search bar and the collection drop down menu.

Search using the Search Bar

To search the catalog from the home page, enter text into the search bar in the center of the main page, or enter text into the search bar to the right of the results on a results page. Search indices are configurable, but the default search indices include author, title and (key)word.

You can use this search bar to search the entire catalog, or, using the configuration files, you can apply a filter so that search queries entered here retrieve records that meet specific criteria, such as child-friendly copy locations or MARC audience codes.

Search using the Grid

From the home page, you can search the catalog by clicking on the grid of icons. An icon search can link to an external web link or to a canned search. For example, the icon, Musical Instruments, could link to the results of a catalog search on the subject heading, Musical instruments.

The labels on the grid of icons and the content that they search are configurable by branch. You can use the grid to search the entire catalog, or, using the configuration files, you can apply a filter so that search queries entered here retrieve records associated with specific criteria, such as child-friendly copy locations or MARC audience codes.

SEARCH YOUR LIBRARY

for books, movies, music, magazines, and more!

Word Title Author

SEARCH ▶

Or click on an image to get started:



You can add multiple layers of icons and searches to your grid:



MUSICAL INSTRUMENTS



Search using the Search Bar and the Collection Drop Down Menu

On the search results page, a search bar and drop down menu appear on the right side of the screen. You can enter a search term and into the search bar and select a collection from the drop down menu to search these configured collections. Configured collections might provide more targeted searching for your audience than a general catalog search. For example, you could create collections by shelving location or by MARC audience code.

SEARCH RESULTS

Page 1 of 12

SEARCH RESULTS

NEW SEARCH

dog

Word Title Author

Full Collection

Full Collection

Children's Materials

Young Adult Materials

General/Adult Materials

Clifford's first Christmas

by Bridwell, Norman.

XLSMPOCR-JB60

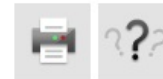
Scholastic, c1994.

1 v. (unpaged) : col. ill. ,21 cm.

Language material

MORE INFO > GET IT >

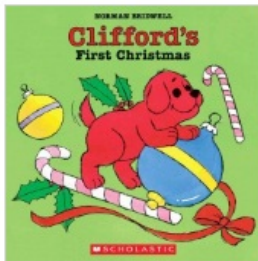
Using any search method, the search results display in the center of the screen. Brief information displays beneath each title in the initial search result. The brief information that displays, such as title, author, or publication information, is configurable.



SEARCH RESULTS

Page 1 of 12

NEXT >



Clifford's first Christmas

by Bridwell, Norman.
XLSMPOCR-JB60
Scholastic, c1994.
1 v. (unpaged) :col. ill. ;21 cm.



Language material

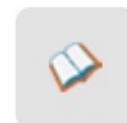
MORE INFO >

GET IT >



James Herriot's dog stories.

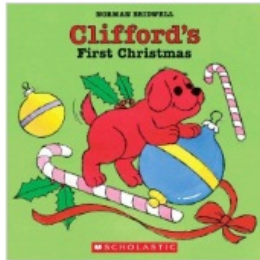
by Herriot, James.
17PL7WP2-XRYM
St. Martin's Press., c1986.
xxxiii, 426 p. :ill. ;24 cm.



Language material

For full details on a title, click More Info. The full details displays the configured fields from the title record and copy information. Click Show more copies to display up to fifty results. Use the breadcrumbs at the top to trace your search history.

[Home](#)
[SEARCH RESULTS](#)
[CLIFFORD'S FIRS...](#)
[GET IT](#)



Clifford's first Christmas
by Bridwell, Norman.



Language material

[Rate or review](#) |
 XLSMPOCR-JB60
 Scholastic, c1994.
 1 v. (unpaged) :col. ill. ;21 cm.

GET IT >

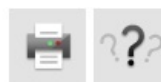
< GO BACK

You can find this item at these locations:

LOCATION		STATUS	CALL NUMBER
Bothell	View Library Info	Available	XLSMPOCR-JB60
Foster	View Library Info	Available	5XMDVN34-FNZF
Foster	View Library Info	Available	5XMDVN34-FNZF
Foster	View Library Info	Available	5XMDVN34-FNZF

Place a Hold

From the search results, click the Get it! link to place a hold.

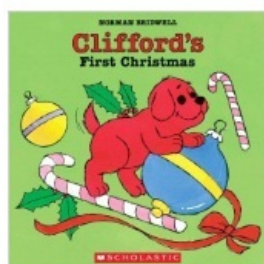


SEARCH RESULTS

SEARCH RESULTS

Page 1 of 12

NEXT >



Clifford's first Christmas

by Bridwell, Norman.

XLSMPOCR-JB60

Scholastic, c1994.

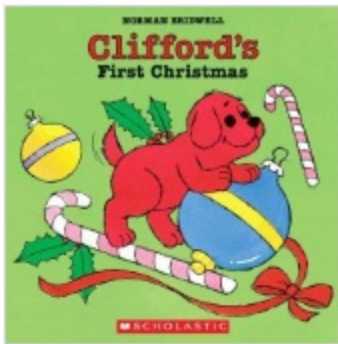
1 v. (unpaged) : col. ill. ; 21 cm.

Language
material

MORE INFO >

GET IT >

The brief information about the title appears, and, if you have not yet logged in, the Get It! panel appears with fields for username and password. Enter the username and password, and select the pick up library. Then click Submit. If you have already logged into your account, you need only to select the pick up location, and click Submit.



Clifford's first Christmas

by Bridwell, Norman.

XLSMPOCR-JB60

Scholastic,, c1994.

1 v. (unpaged) :col. ill. ;21 cm.

GET IT!

If you would like to place a hold on this item, please enter the following information and click Submit below:

Library Card Number without spaces:



Password



Choose a Pickup Library:



SUBMIT >

If you
requ



A confirmation of hold placement appears. You can return to the previous record or to your search results.

HOLD SUCCESSFUL!

Your request for **Clifford's first Christmas** was successful.

You will be notified when your item is ready for pickup. You will be able to pick your item up at Algona-Pacific.

< BACK TO SEARCH RESULTS

< BACK TO CLIFFORD'S FIRST C...

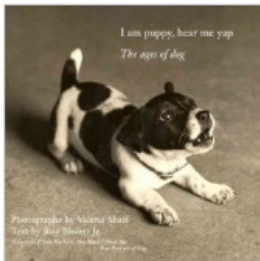
Save Items to a List

You can save items to a temporary list, or, if you are logged in, you can save to a list of your own creation. To save items to a list, click the Get it button on the Search Results page.

SEARCH RESULTS

Page 1 of 2

NEXT >



I am puppy, hear me yap : the ages of a dog

by Shaff, Valerie.

47KU05MG-X84J

HarperCollinsPublishers., c2000.

1 v. (unpaged) : chiefly ill. ;21 cm.




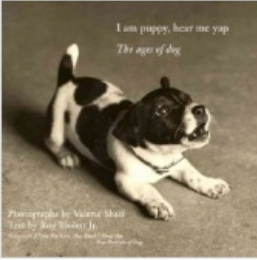
Language material

MORE INFO >


GET IT >

Select a list in the Save It! panel beneath the brief information, and click Submit.


SEARCH RESULTS
I AM PUPPY, HEA...
GET IT



I am puppy, hear me yap : the ages of a dog
 by Shaff, Valerie.
 47KU05MG-X84J
 HarperCollinsPublishers., c2000.
 1 v. (unpaged) : chiefly ill. ; 21 cm.



Language material

GET IT!

If you would like to place a hold on this item, please enter the following information and click Submit below:

Choose a Pickup Library:

SUBMIT >


SAVE IT!

If you would like to save this item to a list to be requested later, please choose a location and click Submit below.

Add to one of your lists?

SUBMIT >

A confirmation of the saved item appears. To save the item to a list or to manage the lists, click the My Lists link to return to the list management feature in the TPAC.


SEARCH RESULTS
I AM PUPPY, HEA...
GET IT

YOU SAVED IT!

You successfully saved I am puppy, hear me yap : the ages of a dog .
 To manage your lists, go to [My Lists](#)

[< BACK TO SEARCH RESULTS](#)

[< BACK TO I AM PUPPY, HEAR M...](#)

Third Party Content

Third party content, such as reader reviews, can be viewed in the Kids OPAC. The reviews link appears adjacent to the brief information.

EVERGREEN™



Home SEARCH RESULTS HARRY POTTER AN... GET IT



Harry Potter and the deathly hallows
by Rowling, J. K.

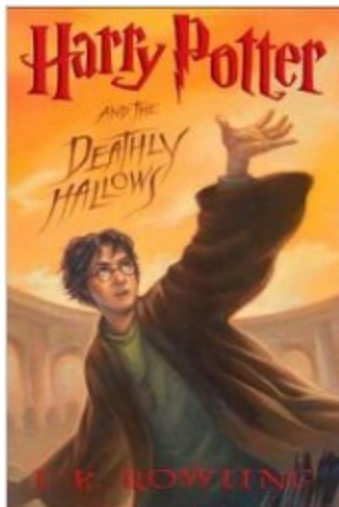


Language material

User rating
★★★★★
[183 reviews](#)

PP1YCPQN-ODXD
Arthur A. Levine Books,, 2007.
x, 759 p. :ill. ;24 cm.

Click the Reviews link to view reader reviews from a third party source. The reader reviews open beneath the brief information.



Harry Potter and the deathly hallows

by Rowling, J. K.



Language material

[Close reviews](#)

PP1YCPQN-ODXD

Arthur A. Levine Books,, 2007.
x, 759 p. :ill. ;24 cm.

[Add a review for this!](#)

Reader rating: 4.55 out of 5 (183 reviews, 234 ratings)

Harry Potter and the deathly hallows /

Author: J. K. Rowling ; illustrations by Mary GrandPré.

-sort by- ▼

Rate this item: ★★★★★

0 out of 183 users would recommend this to a friend.

★★★★★

The best one yet

July 14, 2010

By:

[memyselfandi](#)

Issaquah, Washington (US)

The Deathly Hallows is by far, the best one yet. Full of action, adventure, and well timed comic relief. Loved the series so much I'm now reading it to my daughter. She's gone up 2 1/2 grade levels in reading in one year and I have to give some

Summaries and reviews from other publications appear in separate tabs beneath the copy information.

Just in Time	View Library Info	Available	KPAHXPXO-MPTP
Just in Time	View Library Info	Available	KPAHXPXO-MPTP

About this item:

Burdened with the dark, dangerous, and seemingly impossible task of locating and destroying Voldemort's remaining Horcruxes, Harry, feeling alone and uncertain about his future, struggles to find the inner strength he needs to follow the path set out before him.

[Summary](#) [Reviews](#)

- Baker & Taylor**
 Burdened with the dark, dangerous, and seemingly impossible task of locating and destroying Voldemort's remaining Horcruxes, Harry, feeling alone and uncertain about his future, struggles to find the inner strength he needs to follow the path set out before him. At a time when the forces of evil seem to be gaining the upper hand, Harry comes of age in the wizarding world, and must take on and defeat Voldemort—or be killed himself.
- Baker & Taylor**
 The seventh and final book of the blockbuster Harry Potter series follows the wizard's last year at Hogwarts School of Witchcraft and Wizardry. 12,000,000 first printing.

Configuration Files

Configuration files allow you to define labels for canned searches in the icon grid, determine how icons lead users to new pages, and define whether those icons are canned searches or links to external resources. Documentation describing how to use the configuration files is available in the Evergreen repository.

Chapter 135. Catalog Browse

Abstract

Catalog Browse enables you to browse bibliographic headings available in your catalog. You can click the hyperlinked bibliographic headings to retrieve catalog records that contain these headings. Also, if a given bibliographic heading is linked to an authority record, and if that authority is linked to another one via the first authority's See and See Also tags, the additional variants of (e.g.) an author's name will appear in your search results.

Use Catalog Browse

1. To access this feature, navigate to the catalog search page, and click the link, Browse the Catalog. By default, you can browse by title, author, subject, or series. System administrators can revise this list by editing the file at the location `opac/parts/qtype_selector.tt2`, and they can even make use of custom indices based on definitions in the database's `config.metabib_field` table.
2. Enter a term or part of a term to browse. Evergreen will retrieve a list of bibliographic headings that match your query. Click the Back and Forward buttons to page through your results. To limit your browse results to a specific branch or copy location group, select the appropriate unit from the drop down menu, and click Go.
3. Select a link from the search results. Each linked heading displays the number of bibliographic records associated with the heading. Appropriate information from linked authority records, if any, appears below the main entry heading.
4. To return to your list of results, click the browser's back button or Browse the Catalog. Evergreen will return you to your previous position in your list of results.

Administration

A new global flag warns users when they are entering a browse term that begins with an article. Systems administrators can create a regular expression to configure articles matched with specific indices that would prompt a warning for the user. By default, this setting is not enabled.

1. To enable this feature, click Admin → Server Administration → Global Flags.
2. Double click Map of search classes to regular expressions to warn user about leading articles.
3. Make changes, and click Save.

Chapter 136. Bibliographic Search Enhancements

Enhancements to the bibliographic search function enable you to search for records that were created, edited, or deleted within a date range. You can use the catalog interface or the record feed to search for records with specific date ranges.

Note that all dates should be formatted as YYYY-MM-DD and should be included in parentheses.

Use the Catalog to Retrieve Records with Specified Date Ranges:

Search by Create Date or Range

To find records that were created on or after a specific date, enter the term, `create_date`, and the date in the catalog search field. For example, to find records that were created on or after April 1, 2013, enter the following into the catalog search field:

```
create_date(2013-04-01)
```

To find records that were created within a specific date range, enter the term, `create_date`, followed by comma-separated dates in parentheses. For example, to find records that were created between April 1, 2013 and April 8, 2013, enter the following into the catalog search field:

```
create_date(2013-04-01,2013-04-08)
```

Search by Edit Date or Range

To find records that were edited on or before a specific date, enter the term, `edit-date`, and the date in the catalog search field. The date should be preceded by a comma. For example, to find records that were edited on or before April 1, 2013, enter the following into the catalog search field:

```
edit_date(,2013-04-01)
```

To find records that were edited on or after a specific date, enter the term, `edit_date`, and the date in the catalog search field. For example, to find records that were edited on or after April 1, 2013, enter the following into the catalog search field:

```
edit_date(2013-04-01)
```

To find records that were edited within a specific range, enter the term, `edit_date`, followed by comma-separated dates in parentheses. For example, to find records that were edited between April 1, 2013 and April 8, 2013, enter the following into the catalog search field:

```
edit_date(2013-04-01,2013-04-08)
```

Search by Deleted Status

To search for deleted records, enter in your catalog search field the term, `edit_date`, the date that you want to search, and the term, `#deleted`. For example, to find records that were deleted on or after April 1, 2013, enter the following into the catalog search field:

```
edit_date(2013-04-01)#deleted
```

To find records that were deleted within a specific range, enter the term, `edit_date`, followed by comma-separated dates in parentheses. For example, to find records that were deleted between April 1, 2013 and April 8, 2013, enter the following into the catalog search field:

```
edit_date(2013-04-01,2013-04-08)#deleted
```

Use a Feed to Retrieve Records with Specified Date Ranges:

You can use a feed to retrieve records that were created, edited, or deleted within specific date ranges by adding the dates to the catalog's URL. You can do this manually, or you can write a script that would automatically retrieve this information.

To manually retrieve records that were created, edited, or deleted within a specific date, enter the terms and dates as specified above within the search terms in the URL. For example, to retrieve records created on or after April 1, 2013, enter the following in your URL:

```
http://test.esilibrary.com/opac/extras/opensearch/1.1/-/html-full?searchTerms=create\_date\(2013-04-01\)&searchClass=keyword
```



To retrieve deleted records, replace the `#` with `%23` in your URL.

Chapter 137. Binary MARC21 Feeds

Evergreen's OpenSearch service can return search results in many formats, including HTML, MARCXML, and MODS. As of version 2.4, it can also return results in binary MARC21 format.

When making an HTTP request to an Evergreen system using the OpenSearch API, you must include the term "marc21" in the appropriate location within the URL to retrieve a feed of MARC21 records in a binary format. The following example demonstrates the appropriate form of the URL:

http://test.esilibrary.com/opac/extras/opensearch/1.1/-/marc21?searchTerms=create_date%282013-04-01%29&searchClass=keyword

You can add this term manually to the URL produced by a catalog search, or you can create a script that would retrieve this information automatically.

Chapter 138. TPAC Metarecord Search and Metarecord Level Holds

Metarecords are compilations of individual bibliographic records that represent the same work. This compilation allows for several records to be represented on a single line on the TPAC search results page, which can help to reduce result duplications.

Advanced Search Page

Selecting the Group Formats and Editions checkbox on the Advanced Search page allows the user to perform a metarecord search.

EVERGREEN™ My Account

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog Basic Search Browse the Catalog

Advanced Search Numeric Search Expert Search

Search Input

Keyword Contains [input] X

And Title Contains Harry Potter and the [input] X

And Author Contains [input] X

[Add Search Row](#)

Search Clear Form

Search Filters

Item Type	Item Form	Language	Audience
Cartographic material	Braille	Abkhaz	Adolescent
Computer file	Direct electronic	Achinese	Adult
Kit	Electronic	Acoli	General
Language material	Large print	Adangme	Juvenile

Video Format	Bib Level	Literary Form	Shelving Location
8 mm.	Collection	Comic strips	Quick Read
Beta	Integrating resource	Dramas	Stacks
Betacam	Monograph/Item	Essays	
Betacam SP	Monographic component p.	Fiction (not further specifie	

Search Library	Publication Year	Sort Results
Example Branch 1	Is	Sort by Relevance

Limit to Available

Group Formats and Editions



Administrators can also configure the catalog to default to a Group Formats and Editions search by enabling the [relevant config.tt2 setting](#) on the server. Setting this option will pre-select the checkbox on the Advanced Search and Search Result Pages. Users can remove the checkmark, but new searches will revert to the default search behavior.

Search Results Page

Within the Search Results page, users can also refine their searches and filter on metarecord search results by selecting the Group Formats and Editions checkbox.

EVERGREEN My Account

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)

Search: title:Harry Potter and the Gr Type: Keyword Format: All Formats Library: Example Branch 1 Search

[Refine My Original Search](#)

Another Search **Advanced Search** Sort by: Sort by Relevance Show More Details Limit to available items **Group Formats and Editions**

Search Results Results 1 - 1 of about 1 (page 1 of 1)

Personal Author Rowling, J. K. (1)	1. Harry Potter and the goblet of fire (3) Rowling, J. K. Book CD Audiobook Musical Sound Recording (Unknown Format) (2002.) Call number: AUD ROW 15 of 15 copies available at Example Consortium. 6 of 6 copies available at Example System 1. 4 of 4 copies available at Example Branch 1.	<input checked="" type="checkbox"/> Place Hold <input type="checkbox"/> Add to my list
Topic Subject More Granger, Hermione (Fictitious character) (1)		

The metarecord search results will display both the representative metarecord bibliographic data and the combined metarecord holdings data (if the holdings data is OPAC visible).

The number of records represented by the metarecord are displayed in parenthesis next to the title.

The formats contained within the metarecord are displayed under the title.

EVERGREEN My Account

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)

Search: title:Harry Potter and the Gr Type: Keyword Format: All Formats Library: Example Consortium Search

[Refine My Original Search](#)

Another Search **Advanced Search** Sort by: Sort by Relevance Show More Details Limit to available items **Group Formats and Editions**

Search Results Results 1 - 1 of about 1 (page 1 of 1)

Personal Author Rowling, J. K. (1)	1. Harry Potter and the goblet of fire (5) Rowling, J. K. Book CD Audiobook Large Print Book Musical Sound Recording (Unknown Format) Blu-ray (2002.) Call number: AUD ROW 15 of 15 copies available at Example Consortium.	<input checked="" type="checkbox"/> Place Hold <input type="checkbox"/> Add to my list
Topic Subject More Granger, Hermione (Fictitious character) (1)		

For the metarecord search result, the Place Hold link defaults to a metarecord level hold.

EVERGREEN My Account

Link 1 Link 2 Link 3 Link 4 Link 5

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)

Search: title:Harry Potter and the Gr Type: Keyword Format: All Formats Library: Example Consortium Search

[Refine My Original Search](#)

Another Search **Advanced Search** Sort by: Sort by Relevance Show More Details Limit to available items **Group Formats and Editions**

Search Results Results 1 - 1 of about 1 (page 1 of 1)

Personal Author Rowling, J. K. (1)	1. Harry Potter and the goblet of fire (5) Rowling, J. K. Book CD Audiobook Large Print Book Musical Sound Recording (Unknown Format) Blu-ray (2002.) Call number: AUD ROW 15 of 15 copies available at Example Consortium.	<input checked="" type="checkbox"/> Place Hold <input type="checkbox"/> Add to my list
Topic Subject More Granger, Hermione (Fictitious character) (1)		

To place a metarecord level hold:

1. Click the Place Hold link.
2. Users who are not logged into their accounts will be directed to the Log in to Your Account screen, where they will enter their username and password. Users who are already logged into their accounts will be directed to the Place Hold screen.
3. Within the Place Hold screen, users can select the multiple formats and/or languages that are available.
4. Continue to enter any additional hold information (such as Pickup Location), if needed.
5. Click Submit.

Place Hold

Harry Potter and the goblet of fire / by J.K. Rowling ; illustrations by Mary GrandPré.

Select your desired format(s).

If none are selected, any available formats may be used.

Blu-ray
Book
CD Audiobook
Large Print Book

Select your desired language(s).

If none are selected, any available languages may be used.

English

Selecting multiple formats will not place all of these formats on hold for the user. For example, a user cannot select CD Audiobook and Book and expect to place both the CD and book on hold at the same time. Instead, the user is implying that either the CD format or the book format is the acceptable format to fill the hold. If no format is selected, then any of the available formats may be used to fill the hold. The same holds true for selecting multiple languages.

Advanced Hold Options

When users place a hold on an individual bibliographic record they will see an Advanced Hold Options link within the Place Hold screen. Clicking the Advanced Hold Options link will take the users into the metarecord level hold feature, enabling them to select multiple formats and/or languages.

Place Hold

Harry Potter and the goblet of fire [video recording]/ J.K. Rowling.

[Advanced Hold Options](#)

Pickup location:

Notify when hold is ready for pickup?

Yes, by Email

No configured Email address. See "My Account" for setting your Email address.

Yes, by Phone

Phone Number:

Submit

Cancel

Metarecord Constituent Records Page

The TPAC now includes a Metarecord Constituent Records page, which displays a listing of the individual bibliographic records grouped within the metarecord. Access the Metarecord Constituent Records page by clicking on the metarecord title on the Search Results page.

The screenshot shows the Evergreen library website interface. At the top, there is a green header with the 'EVERGREEN' logo and a 'My Account' button. Below the header, there are navigation links: 'Link 1', 'Link 2', 'Link 3', 'Link 4', and 'Link 5'. The main search area includes a search bar with the text 'title:Harry Potter and the Gi', a 'Type' dropdown set to 'Keyword', a 'Format' dropdown set to 'All Formats', and a 'Library' dropdown set to 'Example Consortium'. A 'Search' button is to the right. Below the search bar, there are options to 'Refine My Original Search', 'Another Search', 'Advanced Search', 'Sort by' (set to 'Sort by Relevance'), 'Show More Details', 'Limit to available items', and 'Group Formats and Editions' (checked). The search results section shows 'Search Results Results 1 - 1 of about 1 (page 1 of 1)'. The first result is '1. Harry Potter and the goblet of fire (5)' by Rowling, J. K., with a small image of the book cover. To the right of the title are 'Place Hold' and 'Add to my list' buttons. Below the title, there are icons for 'Book', 'CD Audiobook', 'Large Print Book', and 'Musical'. The text below the icons reads 'Sound Recording (Unknown Format) Blu-ray (2002.)' and 'Call number: AUD ROW'. At the bottom of the result, it says '15 of 15 copies available at Example Consortium.' On the left side of the result, there are two tabs: 'Personal Author' and 'Topic Subject'. Under 'Personal Author', there is 'Rowling, J. K. (1)'. Under 'Topic Subject', there is 'Granger, Hermione (Fictitious character) (1)'. A 'More' link is next to the 'Topic Subject' tab.

This will allow the user to view the results for grouped records.

Search the Catalog [Advanced Search](#) [Browse the Catalog](#)


Search: Type: Keyword Format: All Formats Library: Exan

[Refine My Original Search](#)]

Viewing Results for Grouped Record: [Return to Grouped Search Results](#)

Search Results Results 1 - 5 of about 5 (page 1 of 1)

1.



[Harry Potter and the goblet of fire](#)
[Rowling, J. K.](#)

Book (2002.)
Call number: G880 210
 10 of 10 copies available at Example Consortium.

[Place Hold](#) [Add to my list](#)


2.

[Harry Potter and the goblet of fire](#)
[Rowling, J. K.](#)

CD Audiobook (p2000.)
Call number: AUD ROW
 1 of 1 copy available at Example Consortium.

[Place Hold](#) [Add to my list](#)

3.




[Harry Potter and the goblet of fire](#)
[Rowling, J. K.](#)

Large Print Book (2002.)
Call number: LGPRINT FIC ROW
 2 of 2 copies available at Example Consortium.

[Place Hold](#) [Add to my list](#)

4.




[Harry Potter and the goblet of fire](#)
[Rowling, J. K.](#)

Blu-ray
Call number: dvd
 1 of 1 copy available at Example Consortium.

[Place Hold](#) [Add to my list](#)

5.



[Harry Potter and the goblet of fire](#)
[Rowling, J. K.](#)

Musical Sound Recording (Unknown Format)
Call number: quickread
 1 of 1 copy available at Example Consortium.

[Add to my list](#)

Search Results Results 1 - 5 of about 5 (page 1 of 1)

Show Holds on Bib

Within the staff client, Show Holds on Bib for a metarecord level hold will take the staff member into the Metarecord Constituent Records page.

Global Flag: OPAC Metarecord Hold Formats Attribute

To utilize the metarecord level hold feature, the Global Flag: OPAC Metarecord Hold Formats Attribute must be enabled and its value set at mr_hold_format, which is the system's default configuration.

Global Flags

[Back](#) [Next](#) [Filter](#)

#	Label	Enabled	Value
1	OPAC Metarecord Hold Formats Attribute	True	mr_hold_format

Chapter 139. Library Information Pages

The branch name displayed in the copy details section of the search results page, the record summary page, and the kids catalog record summary page will link to a library information page. This page is located at <http://hostname/eg/opac/library/<SHORTNAME>> and at <http://hostname/eg/opac/library/<ID>>.

Evergreen automatically generates this page based on information entered in Admin → Server Administration → Organizational Units (actor.org_unit).

The library information page displays:

- The name of the library
- Opening hours
- E-mail address
- Phone number
- Mailing address
- The branch's parent library system

An Evergreen site can also display a link to the library's web site on the information page.

To display a link:

1. Go to Admin → Local Administration → Library Settings Editor.
2. Edit the Library Information URL setting for the branch.



If you set the URL at the system level, that URL will be used as the link for the system and for all child branches that do not have its own URL set. . Enter the URL in the following format: <http://example.com/about.html>.

An Evergreen site may also opt to link directly from the copy details section of the catalog to the library web site, bypassing the automatically-generated library information page. To do so:

1. Add the library's URL to the Library Information URL setting as described above.
2. Go to Admin → Local Administration → Library Settings Editor.
3. Set the Use external "library information URL" in copy table, if available setting to true.

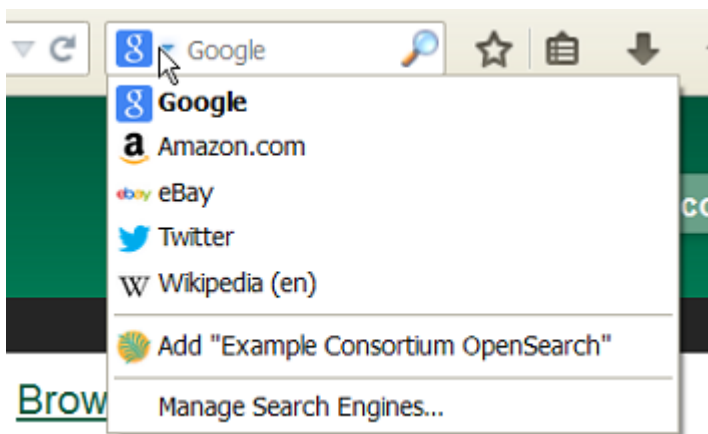
The library information pages publish schema.org structured data, as do parts of the OPAC bibliographic record views, which can enable search engines and other systems to better understand your libraries and their resources.

Chapter 140. Adding OpenSearch to Firefox browser

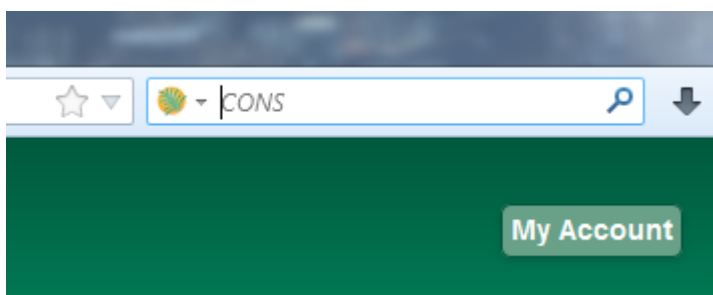
OpenSearch is a collection of simple formats for the sharing of search results. More information about OpenSearch can be found on their [website](#).

The following example illustrates how to add an OpenSearch source to the list of search sources in a Firefox browser:

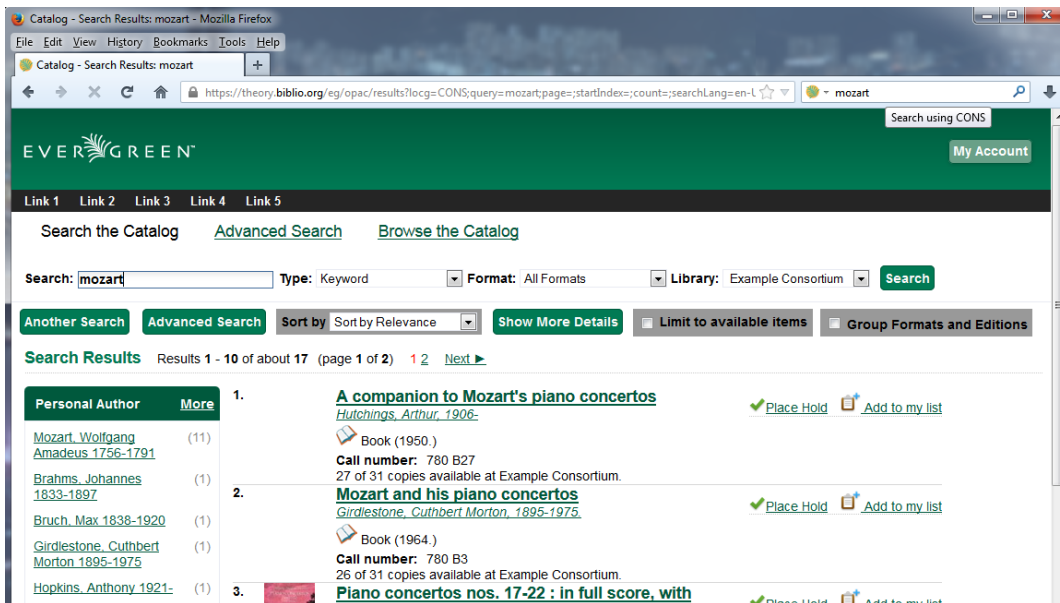
1. Navigate to any catalog page in your Firefox browser and click on the top right box's dropdown and select the option for Add "Example Consortium OpenSearch". The label will match the current scope.



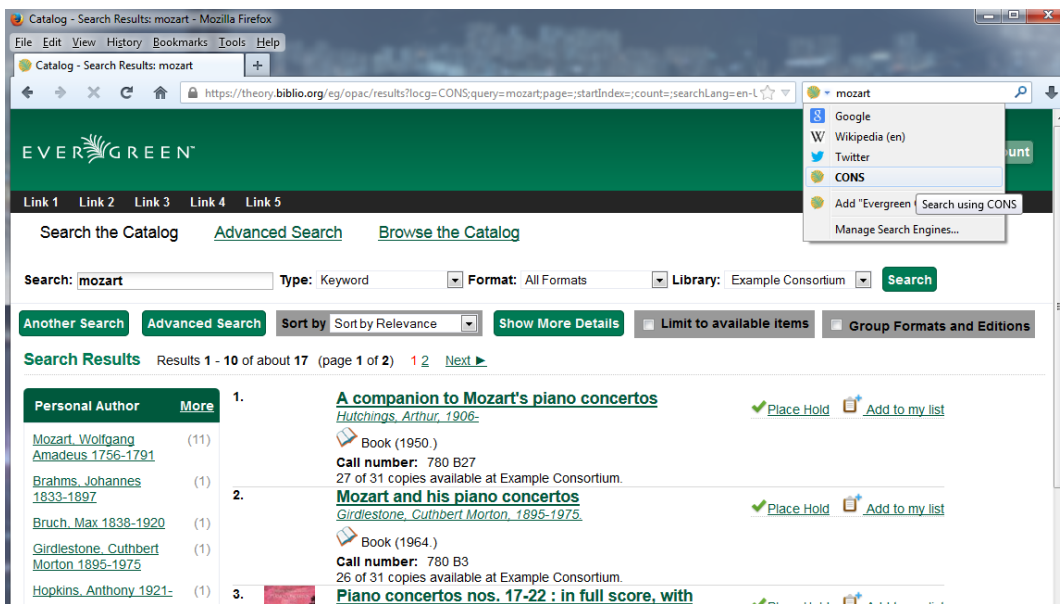
2. At this point, it will add a new search option for the location the catalog is currently using. In this example, that is CONS (searching the whole consortium).



3. Enter search terms to begin a keyword search using this source. The next image illustrates an example search for "mozart" using the sample bib record set.



4. You can select which search source to use by clicking on the dropdown picker.



Part XIV. Developer Resources

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Chapter 142. Introduction

Developers can use this part to learn more about the programming languages, communication protocols and standards used in Evergreen.

Chapter 143. Support Scripts

Various scripts are included with Evergreen in the `/openils/bin/` directory (and in the source code in `Open-ILS/src/support-scripts` and `Open-ILS/src/extras`). Some of them are used during the installation process, such as `eg_db_config`, while others are usually run as cron jobs for routine maintenance, such as `fine_generator.pl` and `hold_targeter.pl`. Others are useful for less frequent needs, such as the scripts for importing/exporting MARC records. You may explore these scripts and adapt them for your local needs. You are also welcome to share your improvements or ask any questions on the [Evergreen IRC channel](#) or [email lists](#).

Here is a summary of the most commonly used scripts. The script name links to more thorough documentation, if available.

- [action_trigger_runner.pl](#) — Useful for creating events for specified hooks and running pending events
- `authority_authority_linker.pl` — Links reference headings in authority records to main entry headings in other authority records. Should be run at least once a day (only for changed records).
- `authority_control_fields.pl` — Links bibliographic records to the best matching authority record. Should be run at least once a day (only for changed records). You can accomplish this by running `authority_control_fields.pl --days-back=1`
- `autogen.sh` — Generates web files used by the OPAC, especially files related to organization unit hierarchy, fieldmapper IDL, locales selection, facet definitions, compressed JS files and related cache key
- `clark-kent.pl` — Used to start and stop the reporter (which runs scheduled reports)
- [eg_db_config](#) — Creates database and schema, updates config files, sets Evergreen administrator username and password
- `fine_generator.pl`
- `hold_targeter.pl`
- [marc2are.pl](#) — Converts authority records from MARC format to Evergreen objects suitable for importing via `pg_loader.pl` (or `parallel_pg_loader.pl`)
- `marc2bre.pl` — Converts bibliographic records from MARC format to Evergreen objects suitable for importing via `pg_loader.pl` (or `parallel_pg_loader.pl`)
- `marc2sre.pl` — Converts serial records from MARC format to Evergreen objects suitable for importing via `pg_loader.pl` (or `parallel_pg_loader.pl`)
- [marc_export](#) — Exports authority, bibliographic, and serial holdings records into any of these formats: USMARC, UNIMARC, XML, BRE, ARE
- `osrf_control` — Used to start, stop and send signals to OpenSRF services

- `parallel_pg_loader.pl` — Uses the output of `marc2bre.pl` (or similar tools) to generate the SQL for importing records into Evergreen in a parallel fashion

marc_export: Exporting Bibliographic Records into MARC files

The following procedure explains how to export Evergreen bibliographic records into MARC files using the `marc_export` support script. All steps should be performed by the **opensrf** user from your Evergreen server.



Processing time for exporting records depends on several factors such as the number of records you are exporting. It is recommended that you divide the export ID files (`records.txt`) into a manageable number of records if you are exporting a large number of records.

1. Create a text file list of the Bibliographic record IDs you would like to export from Evergreen. One way to do this is using SQL:

```
SELECT DISTINCT bre.id FROM biblio.record_entry AS bre
  JOIN asset.call_number AS acn ON acn.record = bre.id
 WHERE bre.deleted='false' and owning_lib=101 \g /home/opensrf/records.txt;
```

This query creates a file called **records.txt** containing a column of distinct IDs of items owned by the organizational unit with the id 101.

2. Navigate to the support-scripts folder

```
cd /home/opensrf/Evergreen-ILS*/Open-ILS/src/support-scripts/
```

3. Run `marc_export`, using the ID file you created in step 1 to define which files to export. The following example exports the records into MARCXML format.

```
cat /home/opensrf/records.txt | ./marc_export --store -i -c /openils/conf/opensrf_core.xml \
-x /openils/conf/fm_IDL.xml -f XML --timeout 5 > exported_files.xml
```



marc_export was updated in Evergreen 2.6 and now does not output progress as it executes.



You can use the **--since** option to export records modified after a certain date and time.



By default, `marc_export` will use the reporter storage service, which should work in most cases. But if you have a separate reporter database and you know you want to talk directly to your main production database, then you can set the `--store` option to `cstore` or `storage`.



For more information, run `marc_export` with the `-h` option:

```
./marc_export -h
```

Importing Authority Records from Command Line

The major advantages of the command line approach are its speed and its convenience for system administrators who can perform bulk loads of authority records in a controlled environment. For alternate instructions, see [Importing Authority Records from the Staff Client](#).

1. Run `marc2are.pl` against the authority records, specifying the user name, password, MARC type (USMARC or XML). Use **STDOUT** redirection to either pipe the output directly into the next command or into an output file for inspection. For example, to process a file with authority records in MARCXML format named `auth_small.xml` using the default user name and password, and directing the output into a file named `auth.are`:

```
cd Open-ILS/src/extras/import/  
perl marc2are.pl --user admin --pass open-ils --marctype XML auth_small.xml > auth.are
```



The MARC type will default to USMARC if the `--marctype` option is not specified.

2. Run `parallel_pg_loader.pl` to generate the SQL necessary for importing the authority records into your system. This script will create files in your current directory with filenames like `pg_loader-output.are.sql` and `pg_loader-output.sql` (which runs the previous SQL file). To continue with the previous example by processing our new `auth.are` file:

```
cd Open-ILS/src/extras/import/  
perl parallel_pg_loader.pl --auto are --order are auth.are
```



To save time for very large batches of records, you could simply pipe the output of `marc2are.pl` directly into `parallel_pg_loader.pl`.

3. Load the authority records from the SQL file that you generated in the last step into your Evergreen database using the `psql` tool. Assuming the default user name, host name, and database name for an Evergreen instance, that command looks like:

```
psql -U evergreen -h localhost -d evergreen -f pg_loader-output.sql
```

MARC Stream Importer

The MARC Stream Importer can import authority records or bibliographic records. A single running instance of the script can import either type of record, based on the record leader.

This support script has its own configuration file, `marc_stream_importer.conf`, which includes settings related to logs, ports, uses, and access control.

The importer is even more flexible than the staff client import, including the following options:

- `--bib-auto-overlay-exact` and `--auth-auto-overlay-exact`: overlay/merge on exact 901c matches
- `--bib-auto-overlay-1match` and `--auth-auto-overlay-1match`: overlay/merge when exactly one match is found
- `--bib-auto-overlay-best-match` and `--auth-auto-overlay-best-match`: overlay/merge on best match
- `--bib-import-no-match` and `--auth-import-no-match`: import when no match is found

One advantage to using this tool instead of the staff client Import interface is that the MARC Stream Importer can load a group of files at once.

Chapter 144. Developing with pgTAP tests

Setting up pgTAP on your development server

Currently, Evergreen pgTAP tests expect a version of pgTAP (0.93) that is not yet available in the packages for most Linux distributions. Therefore, you will have to install pgTAP from source as follows:

1. Download, make, and install pgTAP on your database server. pgTAP can be downloaded from <http://pgxn.org/dist/pgtap/> and the instructions for building and installing the extension are available from <http://pgtap.org/documentation.html>
2. Create the pgTAP extension in your Evergreen database. Using `psql`, connect to your Evergreen database and then issue the command:

```
CREATE EXTENSION pgtap;
```

Running pgTAP tests

The pgTAP tests can be found in subdirectories of `Open-ILS/src/sql/Pg/` as follows:

- `t`: contains pgTAP unit tests that can be run on a freshly installed Evergreen database
- `live_t`: contains pgTAP unit tests meant to be run on an Evergreen database that also has had the "concerto" sample data loaded on it

To run the pgTAP unit and regression tests, use the `pg_prove` command. For example, from the Evergreen source directory, you can issue the command: `pg_prove -U evergreen Open-ILS/src/sql/Pg/t Open-ILS/src/sql/Pg/t/regress`

Chapter 145. Easing gently into OpenSRF

Abstract

The Evergreen open-source library system serves library consortia composed of hundreds of branches with millions of patrons - for example, [the Georgia Public Library Service PINES system](#). One of the claimed advantages of Evergreen over alternative integrated library systems is the underlying Open Service Request Framework (OpenSRF, pronounced "open surf") architecture. This article introduces OpenSRF, demonstrates how to build OpenSRF services through simple code examples, and explains the technical foundations on which OpenSRF is built.

Introducing OpenSRF

OpenSRF is a message routing network that offers scalability and failover support for individual services and entire servers with minimal development and deployment overhead. You can use OpenSRF to build loosely-coupled applications that can be deployed on a single server or on clusters of geographically distributed servers using the same code and minimal configuration changes. Although copyright statements on some of the OpenSRF code date back to Mike Rylander's original explorations in 2000, Evergreen was the first major application to be developed with, and to take full advantage of, the OpenSRF architecture starting in 2004. The first official release of OpenSRF was 0.1 in February 2005 (<http://evergreen-ils.org/blog/?p=21>), but OpenSRF's development continues a steady pace of enhancement and refinement, with the release of 1.0.0 in October 2008 and the most recent release of 1.2.2 in February 2010.

OpenSRF is a distinct break from the architectural approach used by previous library systems and has more in common with modern Web applications. The traditional "scale-up" approach to serve more transactions is to purchase a server with more CPUs and more RAM, possibly splitting the load between a Web server, a database server, and a business logic server. Evergreen, however, is built on the Open Service Request Framework (OpenSRF) architecture, which firmly embraces the "scale-out" approach of spreading transaction load over cheap commodity servers. The [initial GPLS PINES hardware cluster](#), while certainly impressive, may have offered the misleading impression that Evergreen is complex and requires a lot of hardware to run.

This article hopes to correct any such lingering impression by demonstrating that OpenSRF itself is an extremely simple architecture on which one can easily build applications of many kinds - not just library applications - and that you can use a number of different languages to call and implement OpenSRF methods with a minimal learning curve. With an application built on OpenSRF, when you identify a bottleneck in your application's business logic layer, you can adjust the number of the processes serving that particular bottleneck on each of your servers; or if the problem is that your service is resource-hungry, you could add an inexpensive server to your cluster and dedicate it to running that resource-hungry service.

Programming language support

If you need to develop an entirely new OpenSRF service, you can choose from a number of different languages in which to implement that service. OpenSRF client language bindings have been written for C, Java, JavaScript, Perl, and Python, and server language bindings have been

written for C, Perl, and Python. This article uses Perl examples as a lowest common denominator programming language. Writing an OpenSRF binding for another language is a relatively small task if that language offers libraries that support the core technologies on which OpenSRF depends:

- [Extensible Messaging and Presence Protocol](#) (XMPP, sometimes referred to as Jabber) - provides the base messaging infrastructure between OpenSRF clients and servers
- [JavaScript Object Notation](#) (JSON) - serializes the content of each XMPP message in a standardized and concise format
- [memcached](#) - provides the caching service
- [syslog](#) - the standard UNIX logging service

Unfortunately, the [OpenSRF reference documentation](#), although augmented by the [OpenSRF glossary](#), blog posts like [the description of OpenSRF and Jabber](#), and even this article, is not a sufficient substitute for a complete specification on which one could implement a language binding. The recommended option for would-be developers of another language binding is to use the Python implementation as the cleanest basis for a port to another language.

OpenSRF communication flows over XMPP

The XMPP messaging service underpins OpenSRF, requiring an XMPP server such as [ejabberd](#). When you start OpenSRF, the first XMPP clients that connect to the XMPP server are the OpenSRF public and private routers. OpenSRF routers maintain a list of available services and connect clients to available services. When an OpenSRF service starts, it establishes a connection to the XMPP server and registers itself with the private router. The OpenSRF configuration contains a list of public OpenSRF services, each of which must also register with the public router. Services and clients connect to the XMPP server using a single set of XMPP client credentials (for example, **opensrf@private.localhost**), but use XMPP resource identifiers to differentiate themselves in the Jabber ID (JID) for each connection. For example, the JID for a copy of the **opensrf.simple-text** service with process ID **6285** that has connected to the **private.localhost** domain using the **opensrf** XMPP client credentials could be **opensrf@private.localhost/opensrf.simple-text_drone_at_localhost_6285**.

OpenSRF communication flows over HTTP

Any OpenSRF service registered with the public router is accessible via the OpenSRF HTTP Translator. The OpenSRF HTTP Translator implements the [OpenSRF-over-HTTP proposed specification](#) as an Apache module that translates HTTP requests into OpenSRF requests and returns OpenSRF results as HTTP results to the initiating HTTP client.

Issuing an HTTP POST request to an OpenSRF method via the OpenSRF HTTP Translator.

```
# curl request broken up over multiple lines for legibility
curl -H "X-OpenSRF-service: opensrf.simple-text" \ # ❶
  --data 'osrf-msg=[ \ # ❷
    {"__c__":"osrfMessage", "__p__":{"threadTrace":0, "locale":"en-CA", \ # ❸
      "type":"REQUEST", "payload": {"__c__":"osrfMethod", "__p__": \
        {"method":"opensrf.simple-text.reverse", "params":["foobar"]}} \
    ]}' \
```

```
    }]'
http://localhost/osrf-http-translator
```

```
 \
 \ # ❶
```

- ❶ The **X-OpenSRF-service** header identifies the OpenSRF service of interest.
- ❷ The POST request consists of a single parameter, the **osrf-msg** value, which contains a JSON array.
- ❸ The first object is an OpenSRF message (**"__c":"osrfMessage"**) with a set of parameters (**"__p":{}**) containing:
 - the identifier for the request (**"threadTrace":0**); this value is echoed back in the result
 - the message type (**"type":"REQUEST"**)
 - the locale for the message; if the OpenSRF method is locale-sensitive, it can check the locale for each OpenSRF request and return different information depending on the locale
 - the payload of the message (**"payload":{}**) containing the OpenSRF method request (**"__c":"osrfMethod"**) and its parameters (**"__p":{}**), which in turn contains:
 - the method name for the request (**"method":"opensrf.simple-text.reverse"**)
 - a set of JSON parameters to pass to the method (**"params":["foobar"]**); in this case, a single string **"foobar"**
- ❹ The URL on which the OpenSRF HTTP translator is listening, **/osrf-http-translator** is the default location in the Apache example configuration files shipped with the OpenSRF source, but this is configurable.

Results from an HTTP POST request to an OpenSRF method via the OpenSRF HTTP Translator.

```
# HTTP response broken up over multiple lines for legibility
[{"__c":"osrfMessage",__p":
  {"threadTrace":0, "payload":
    {"__c":"osrfResult",__p":
      {"status":"OK","content":"raboof","statusCode":200}
    }, "type":"RESULT", "locale":"en-CA"
  }
},
{"__c":"osrfMessage",__p":
  {"threadTrace":0, "payload":
    {"__c":"osrfConnectStatus",__p":
      {"status":"Request Complete","statusCode":205}
    }, "type":"STATUS", "locale":"en-CA"
  }
}]
 \ # ❶
 \ # ❷
 \ # ❸
 \ # ❹
 \ # ❺
 \ # ❻
 \ # ❼
 \ # ❽
 \ # ❾
 \ # ❿
```

- ❶ The OpenSRF HTTP Translator returns an array of JSON objects in its response. Each object in the response is an OpenSRF message (**"__c":"osrfMessage"**) with a collection of response parameters (**"__p":**).
- ❷ The OpenSRF message identifier (**"threadTrace":0**) confirms that this message is in response to the request matching the same identifier.
- ❸ The message includes a payload JSON object (**"payload":**) with an OpenSRF result for the request (**"__c":"osrfResult"**).
- ❹ The result includes a status indicator string (**"status":"OK"**), the content of the result response - in this case, a single string "raboof" (**"content":"raboof"**) - and an integer status code for the request (**"statusCode":200**).

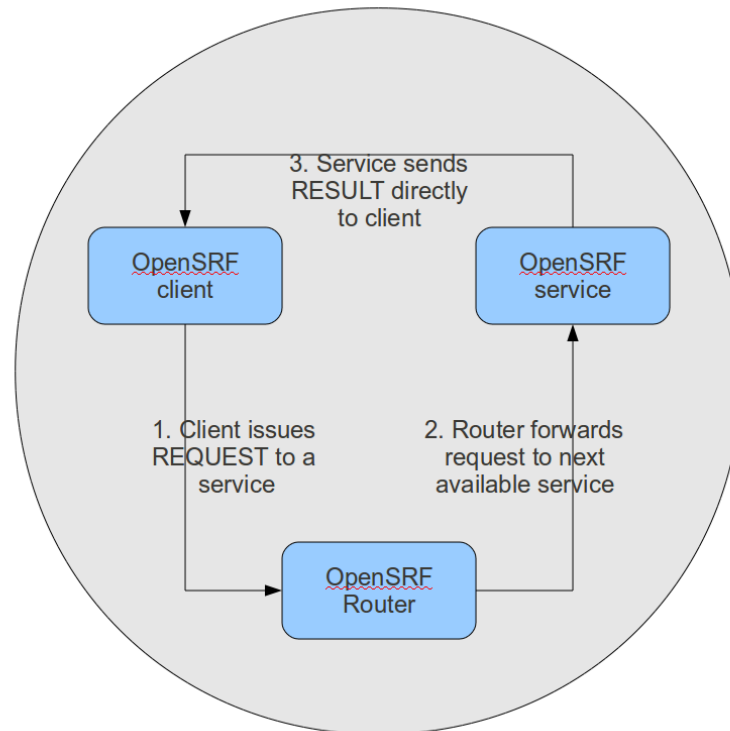
- ⑥ The message also includes the message type ("**type**":"**RESULT**") and the message locale ("**locale**":"**en-CA**").
- ⑥ The second message in the set of results from the response.
- ⑦ Again, the message identifier confirms that this message is in response to a particular request.
- ⑧ The payload of the message denotes that this message is an OpenSRF connection status message ("**__c**":"**osrfConnectStatus**"), with some information about the particular OpenSRF connection that was used for this request.
- ⑨ The response parameters for an OpenSRF connection status message include a verbose status ("**status**":"**Request Complete**") and an integer status code for the connection status ("statusCode":205).
- ⑩ The message also includes the message type ("**type**":"**RESULT**") and the message locale ("**locale**":"**en-CA**").



Before adding a new public OpenSRF service, ensure that it does not introduce privilege escalation or unchecked access to data. For example, the Evergreen **open-ils.cstore** private service is an object-relational mapper that provides read and write access to the entire Evergreen database, so it would be catastrophic to expose that service publicly. In comparison, the Evergreen **open-ils.pcrud** public service offers the same functionality as **open-ils.cstore** to any connected HTTP client or OpenSRF client, but the additional authentication and authorization layer in **open-ils.pcrud** prevents unchecked access to Evergreen's data.

Stateless and stateful connections

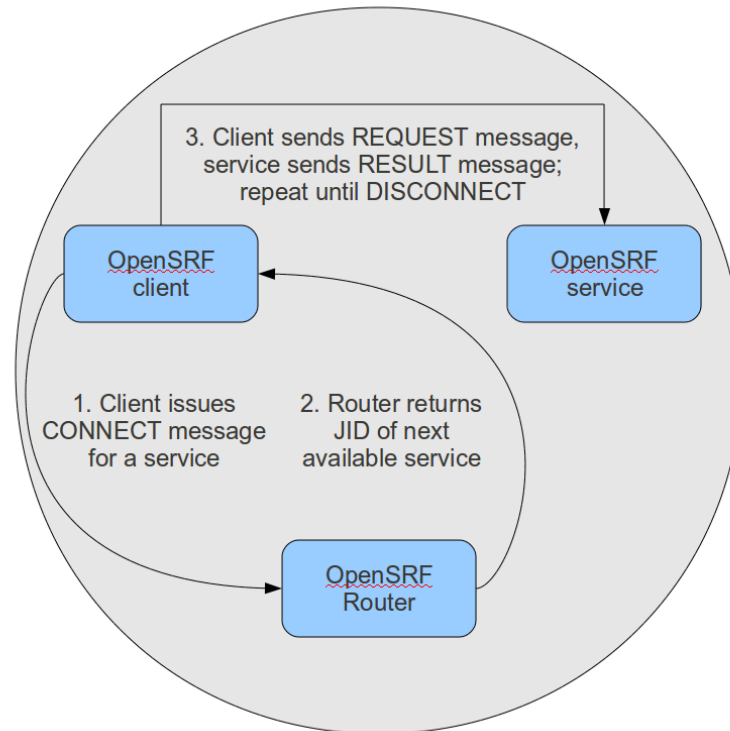
OpenSRF supports both stateless and stateful connections. When an OpenSRF client issues a **REQUEST** message in a stateless connection, the router forwards the request to the next available service and the service returns the result directly to the client.



connection.

When an OpenSRF client issues a **CONNECT** message to create a stateful connection, the router returns the Jabber ID of the next available service to the client so that the client can issue one or more **REQUEST** message directly to that particular service and the service will return corresponding **RESULT** messages directly to the client. Until the client issues a **DISCONNECT** message, that particular service is only available to the requesting client. Stateful connections are useful for clients that need to make many requests from a particular service, as it avoids the intermediary step of contacting the router for each request, as well as for operations that require a controlled sequence of commands, such as a set of database INSERT, UPDATE, and DELETE statements within a transaction.

CONNECT, REQUEST, and DISCONNECT flow in a stateful



connection.

Enough jibber-jabber: writing an OpenSRF service

Imagine an application architecture in which 10 lines of Perl or Python, using the data types native to each language, are enough to implement a method that can then be deployed and invoked seamlessly across hundreds of servers. You have just imagined developing with OpenSRF – it is truly that simple. Under the covers, of course, the OpenSRF language bindings do an incredible amount of work on behalf of the developer. An OpenSRF application consists of one or more OpenSRF services that expose methods: for example, the `opensrf.simple-text.demonstration.service` exposes the `opensrf.simple-text.split()` and `opensrf.simple-text.reverse()` methods. Each method accepts zero or more arguments and returns zero or one results. The data types supported by OpenSRF arguments and results are typical core language data types: strings, numbers, booleans, arrays, and hashes.

To implement a new OpenSRF service, perform the following steps:

1. Include the base OpenSRF support libraries
2. Write the code for each of your OpenSRF methods as separate procedures
3. Register each method
4. Add the service definition to the OpenSRF configuration files

For example, the following code implements an OpenSRF service. The service includes one method named `opensrf.simple-text.reverse()` that accepts one string as input and returns the reversed version of that string:

```
#!/usr/bin/perl

package OpenSRF::Application::Demo::SimpleText;

use strict;

use OpenSRF::Application;
use parent qw/OpenSRF::Application/;

sub text_reverse {
    my ($self, $conn, $text) = @_;
    my $reversed_text = scalar reverse($text);
    return $reversed_text;
}

__PACKAGE__->register_method(
    method    => 'text_reverse',
    api_name  => 'opensrf.simple-text.reverse'
);
```

Ten lines of code, and we have a complete OpenSRF service that exposes a single method and could be deployed quickly on a cluster of servers to meet your application's ravenous demand for reversed strings! If you're unfamiliar with Perl, the `use OpenSRF::Application;` `use parent qw/OpenSRF::Application/;` lines tell this package to inherit methods and properties from the `OpenSRF::Application` module. For example, the call to `__PACKAGE__->register_method()` is defined in `OpenSRF::Application` but due to inheritance is available in this package (named by the special Perl symbol `__PACKAGE__` that contains the current package name). The `register_method()` procedure is how we introduce a method to the rest of the OpenSRF world.

Registering a service with the OpenSRF configuration files

Two files control most of the configuration for OpenSRF:

- `opensrf.xml` contains the configuration for the service itself as well as a list of which application servers in your OpenSRF cluster should start the service
- `opensrf_core.xml` (often referred to as the "bootstrap configuration" file) contains the OpenSRF networking information, including the XMPP server connection credentials for the public and private routers; you only need to touch this for a new service if the new service needs to be accessible via the public router

Begin by defining the service itself in `opensrf.xml`. To register the `opensrf.simple-text` service, add the following section to the `<apps>` element (corresponding to the XPath `/opensrf/default/apps/`):

```
<apps>
  <opensrf.simple-text>                                <!-- ❶ -->
    <keepalive>3</keepalive>                            <!-- ❷ -->
    <stateless>1</stateless>                            <!-- ❸ -->
    <language>perl</language>                          <!-- ❹ -->
    <implementation>OpenSRF::Application::Demo::SimpleText</implementation> <!-- ❺ -->
    <max_requests>100</max_requests>                   <!-- ❻ -->
  </opensrf.simple-text>
</apps>
```

```

<unix_config>
  <max_requests>1000</max_requests>                <!-- ⑦ -->
  <unix_log>opensrf.simple-text_unix.log</unix_log>  <!-- ⑧ -->
  <unix_sock>opensrf.simple-text_unix.sock</unix_sock> <!-- ⑨ -->
  <unix_pid>opensrf.simple-text_unix.pid</unix_pid>  <!-- ⑩ -->
  <min_children>5</min_children>                   <!-- ⑪ -->
  <max_children>15</max_children>                   <!-- ⑫ -->
  <min_spare_children>2</min_spare_children>        <!-- ⑬ -->
  <max_spare_children>5</max_spare_children>        <!-- ⑭ -->
</unix_config>
</opensrf.simple-text>

<!-- other OpenSRF services registered here... -->
</apps>

```

- ① The element name is the name that the OpenSRF control scripts use to refer to the service.
- ② Specifies the interval (in seconds) between checks to determine if the service is still running.
- ③ Specifies whether OpenSRF clients can call methods from this service without first having to create a connection to a specific service backend process for that service. If the value is **1**, then the client can simply issue a request and the router will forward the request to an available service and the result will be returned directly to the client.
- ④ Specifies the programming language in which the service is implemented
- ⑤ Specifies the name of the library or module in which the service is implemented
- ⑥ (C implementations): Specifies the maximum number of requests a process serves before it is killed and replaced by a new process.
- ⑦ (Perl implementations): Specifies the maximum number of requests a process serves before it is killed and replaced by a new process.
- ⑧ The name of the log file for language-specific log messages such as syntax warnings.
- ⑨ The name of the UNIX socket used for inter-process communications.
- ⑩ The name of the PID file for the master process for the service.
- ⑪ The minimum number of child processes that should be running at any given time.
- ⑫ The maximum number of child processes that should be running at any given time.
- ⑬ The minimum number of child processes that should be available to handle incoming requests. If there are fewer than this number of spare child processes, new processes will be spawned.
- ⑭ The maximum number of child processes that should be available to handle incoming requests. If there are more than this number of spare child processes, the extra processes will be killed.

To make the service accessible via the public router, you must also edit the **opensrf_core.xml** configuration file to add the service to the list of publicly accessible services:

Making a service publicly accessible in **opensrf_core.xml**.

```

<router>                                             <!-- ① -->
  <!-- This is the public router. On this router, we only register applications
  which should be accessible to everyone on the opensrf network -->
  <name>router</name>
  <domain>public.localhost</domain>                <!-- ② -->
  <services>
    <service>opensrf.math</service>
    <service>opensrf.simple-text</service>          <!-- ③ -->
  </services>
</router>

```

- ① This section of the **opensrf_core.xml** file is located at XPath **/config/opensrf/routers/**.
- ② **public.localhost** is the canonical public router domain in the OpenSRF installation instructions.

- Each `<service>` element contained in the `<services>` element offers their services via the public router as well as the private router.

Once you have defined the new service, you must restart the OpenSRF Router to retrieve the new configuration and start or restart the service itself.

Calling an OpenSRF method

OpenSRF clients in any supported language can invoke OpenSRF services in any supported language. So let's see a few examples of how we can call our fancy new `opensrf.simple-text.reverse()` method:

Calling OpenSRF methods from the `srfsh` client

`srfsh` is a command-line tool installed with OpenSRF that you can use to call OpenSRF methods. To call an OpenSRF method, issue the `request` command and pass the OpenSRF service and method name as the first two arguments; then pass a list of JSON objects as the arguments to the method being invoked.

The following example calls the `opensrf.simple-text.reverse` method of the `opensrf.simple-text` OpenSRF service, passing the string `"foobar"` as the only method argument:

```
$ srfsh
srfsh # request opensrf.simple-text opensrf.simple-text.reverse "foobar"
```

```
Received Data: "raboof"
```

```
-----
Request Completed Successfully
Request Time in seconds: 0.016718
-----
```

Getting documentation for OpenSRF methods from the `srfsh` client

The `srfsh` client also gives you command-line access to retrieving metadata about OpenSRF services and methods. For a given OpenSRF method, for example, you can retrieve information such as the minimum number of required arguments, the data type and a description of each argument, the package or library in which the method is implemented, and a description of the method. To retrieve the documentation for an `opensrf` method from `srfsh`, issue the `introspect` command, followed by the name of the OpenSRF service and (optionally) the name of the OpenSRF method. If you do not pass a method name to the `introspect` command, `srfsh` lists all of the methods offered by the service. If you pass a partial method name, `srfsh` lists all of the methods that match that portion of the method name.



The quality and availability of the descriptive information for each method depends on the developer to register the method with complete and accurate information. The quality varies across the set of OpenSRF and Evergreen APIs, although some effort is being put towards improving the state of the internal documentation.

```
srfsh# introspect opensrf.simple-text "opensrf.simple-text.reverse"
```

```
--> opensrf.simple-text
```

```
Received Data: {
  "_c":"opensrf.simple-text",
  "_p":{
    "api_level":1,
    "stream":0, \ # ❶
    "object_hint":"OpenSRF_Application_Demo_SimpleText",
    "remote":0,
    "package":"OpenSRF::Application::Demo::SimpleText", \ # ❷
    "api_name":"opensrf.simple-text.reverse", \ # ❸
    "server_class":"opensrf.simple-text",
    "signature":{ \ # ❹
      "params":[ \ # ❺
        {
          "desc":"The string to reverse",
          "name":"text",
          "type":"string"
        }
      ],
      "desc":"Returns the input string in reverse order\n", \ # ❻
      "return":{ \ # ❼
        "desc":"Returns the input string in reverse order",
        "type":"string"
      }
    },
    "method":"text_reverse", \ # ❽
    "argc":1 \ # ❾
  }
}
```

- ❶ **stream** denotes whether the method supports streaming responses or not.
- ❷ **package** identifies which package or library implements the method.
- ❸ **api_name** identifies the name of the OpenSRF method.
- ❹ **signature** is a hash that describes the parameters for the method.
- ❺ **params** is an array of hashes describing each parameter in the method; each parameter has a description (**desc**), name (**name**), and type (**type**).
- ❻ **desc** is a string that describes the method itself.
- ❼ **return** is a hash that describes the return value for the method; it contains a description of the return value (**desc**) and the type of the returned value (**type**).
- ❽ **method** identifies the name of the function or method in the source implementation.
- ❾ **argc** is an integer describing the minimum number of arguments that must be passed to this method.

Calling OpenSRF methods from Perl applications

To call an OpenSRF method from Perl, you must connect to the OpenSRF service, issue the request to the method, and then retrieve the results.

```
#!/usr/bin/perl
use strict;
use OpenSRF::AppSession;
use OpenSRF::System;

OpenSRF::System->bootstrap_client(config_file => '/openils/conf/opensrf_core.xml'); # ❶

my $session = OpenSRF::AppSession->create("opensrf.simple-text"); \ # ❷

print "substring: Accepts a string and a number as input, returns a string\n";
my $result = $session->request("opensrf.simple-text.substring", "foobar", 3); \ # ❸
```

```

my $request = $result->gather(); # ④
print "Substring: $request\n\n";

print "split: Accepts two strings as input, returns an array of strings\n";
$request = $session->request("opensrf.simple-text.split", "This is a test", " "); # ⑤
my $output = "Split: [";
my $element;
while ($element = $request->recv()) { # ⑥
    $output .= $element->content . ", "; # ⑦
}
$output =~ s/, $/]/;
print $output . "\n\n";

print "statistics: Accepts an array of strings as input, returns a hash\n";
my @many_strings = [
    "First I think I'll have breakfast",
    "Then I think that lunch would be nice",
    "And then seventy desserts to finish off the day"
];

$result = $session->request("opensrf.simple-text.statistics", @many_strings); # ⑧
$request = $result->gather(); # ⑨
print "Length: " . $result->{'length'} . "\n";
print "Word count: " . $result->{'word_count'} . "\n";

$session->disconnect(); # ⑩

```

- ① The `OpenSRF::System->bootstrap_client()` method reads the OpenSRF configuration information from the indicated file and creates an XMPP client connection based on that information.
- ② The `OpenSRF::AppSession->create()` method accepts one argument - the name of the OpenSRF service to which you want to want to make one or more requests - and returns an object prepared to use the client connection to make those requests.
- ③ The `OpenSRF::AppSession->request()` method accepts a minimum of one argument - the name of the OpenSRF method to which you want to make a request - followed by zero or more arguments to pass to the OpenSRF method as input values. This example passes a string and an integer to the `opensrf.simple-text.substring` method defined by the `opensrf.simple-text` OpenSRF service.
- ④ The `gather()` method, called on the result object returned by the `request()` method, iterates over all of the possible results from the result object and returns a single variable.
- ⑤ This `request()` call passes two strings to the `opensrf.simple-text.split` method defined by the `opensrf.simple-text` OpenSRF service and returns (via `gather()`) a reference to an array of results.
- ⑥ The `opensrf.simple-text.split()` method is a streaming method that returns an array of results with one element per `recv()` call on the result object. We could use the `gather()` method to retrieve all of the results in a single array reference, but instead we simply iterate over the result variable until there are no more results to retrieve.
- ⑦ While the `gather()` convenience method returns only the content of the complete set of results for a given request, the `recv()` method returns an OpenSRF result object with `status`, `statusCode`, and `content` fields as we saw in [the HTTP results example](#).
- ⑧ This `request()` call passes an array to the `opensrf.simple-text.statistics` method defined by the `opensrf.simple-text` OpenSRF service.
- ⑨ The result object returns a hash reference via `gather()`. The hash contains the `length` and `word_count` keys we defined in the method.
- ⑩ The `OpenSRF::AppSession->disconnect()` method closes the XMPP client connection and cleans up resources associated with the session.

Accepting and returning more interesting data types

Of course, the example of accepting a single string and returning a single string is not very interesting. In real life, our applications tend to pass around multiple arguments, including arrays and hashes. Fortunately, OpenSRF makes that easy to deal with; in Perl, for example, returning a reference to the data type does the right thing. In the following example of a method that returns a list, we accept two arguments of type string: the string to be split, and the delimiter that should be used to split the string.

Text splitting method - streaming mode.

```
sub text_split {
    my $self = shift;
    my $conn = shift;
    my $text = shift;
    my $delimiter = shift || ' ';

    my @split_text = split $delimiter, $text;
    return \@split_text;
}

__PACKAGE__->register_method(
    method      => 'text_split',
    api_name    => 'opensrf.simple-text.split'
);
```

We simply return a reference to the list, and OpenSRF does the rest of the work for us to convert the data into the language-independent format that is then returned to the caller. As a caller of a given method, you must rely on the documentation used to register to determine the data structures - if the developer has added the appropriate documentation.

Accepting and returning Evergreen objects

OpenSRF is agnostic about objects; its role is to pass JSON back and forth between OpenSRF clients and services, and it allows the specific clients and services to define their own semantics for the JSON structures. On top of that infrastructure, Evergreen offers the fieldmapper: an object-relational mapper that provides a complete definition of all objects, their properties, their relationships to other objects, the permissions required to create, read, update, or delete objects of that type, and the database table or view on which they are based.

The Evergreen fieldmapper offers a great deal of convenience for working with complex system objects beyond the basic mapping of classes to database schemas. Although the result is passed over the wire as a JSON object containing the indicated fields, fieldmapper-aware clients then turn those JSON objects into native objects with setter / getter methods for each field.

All of this metadata about Evergreen objects is defined in the fieldmapper configuration file (`/openils/conf/fm_IDL.xml`), and access to these classes is provided by the `open-ils.cstore`, `open-ils.pcrud`, and `open-ils.reporter-store` OpenSRF services which parse the fieldmapper configuration file and dynamically register OpenSRF methods for creating, reading, updating, and deleting all of the defined classes.

Example fieldmapper class definition for "Open User Summary".

```
<class id="mous" controller="open-ils.cstore open-ils.pcrud"
  oils_obj:fieldmapper="money::open_user_summary"
  oils_persist:tablename="money.open_usr_summary"
```

```

reporter:label="Open User Summary">                                <!-- ❶ -->
  <fields oils_persist:primary="usr" oils_persist:sequence="">    <!-- ❷ -->
    <field name="balance_owed" reporter:datatype="money" />      <!-- ❸ -->
    <field name="total_owed" reporter:datatype="money" />
    <field name="total_paid" reporter:datatype="money" />
    <field name="usr" reporter:datatype="link"/>
  </fields>
  <links>
    <link field="usr" reltype="has_a" key="id" map="" class="au"/>  <!-- ❹ -->
  </links>
  <permacrud xmlns="http://open-ils.org/spec/opensrf/IDL/permacrud/v1"> <!-- ❺ -->
    <actions>
      <retrieve permission="VIEW_USER">                            <!-- ❻ -->
        <context link="usr" field="home_ou"/>                       <!-- ❼ -->
      </retrieve>
    </actions>
  </permacrud>
</class>

```

❶ The **<class>** element defines the class:

- The **id** attribute defines the class hint that identifies the class both elsewhere in the fieldmapper configuration file, such as in the value of the **field** attribute of the **<link>** element, and in the JSON object itself when it is instantiated. For example, an "Open User Summary" JSON object would have the top level property of **"__c": "mous"**.
- The **controller** attribute identifies the services that have direct access to this class. If **open-ils.pcrud** is not listed, for example, then there is no means to directly access members of this class through a public service.
- The **oils_obj:fieldmapper** attribute defines the name of the Perl fieldmapper class that will be dynamically generated to provide setter and getter methods for instances of the class.
- The **oils_persist:tablename** attribute identifies the schema name and table name of the database table that stores the data that represents the instances of this class. In this case, the schema is **money** and the table is **open_usr_summary**.
- The **reporter:label** attribute defines a human-readable name for the class used in the reporting interface to identify the class. These names are defined in English in the fieldmapper configuration file; however, they are extracted so that they can be translated and served in the user's language of choice.

❷ The **<fields>** element lists all of the fields that belong to the object.

- The **oils_persist:primary** attribute identifies the field that acts as the primary key for the object; in this case, the field with the name **usr**.
- The **oils_persist:sequence** attribute identifies the sequence object (if any) in this database provides values for new instances of this class. In this case, the primary key is defined by a field that is linked to a different table, so no sequence is used to populate these instances.

❸ Each **<field>** element defines a single field with the following attributes:

- The **name** attribute identifies the column name of the field in the underlying database table as well as providing a name for the setter / getter method that can be invoked in the JSON or native version of the object.

- The **reporter:datatype** attribute defines how the reporter should treat the contents of the field for the purposes of querying and display.
- The **reporter:label** attribute can be used to provide a human-readable name for each field; without it, the reporter falls back to the value of the **name** attribute.
- ④ The **<links>** element contains a set of zero or more **<link>** elements, each of which defines a relationship between the class being described and another class.
 - The **field** attribute identifies the field named in this class that links to the external class.
 - The **reltype** attribute identifies the kind of relationship between the classes; in the case of **has_a**, each value in the **usr** field is guaranteed to have a corresponding value in the external class.
 - The **key** attribute identifies the name of the field in the external class to which this field links.
 - The rarely-used **map** attribute identifies a second class to which the external class links; it enables this field to define a direct relationship to an external class with one degree of separation, to avoid having to retrieve all of the linked members of an intermediate class just to retrieve the instances from the actual desired target class.
 - The **class** attribute identifies the external class to which this field links.
- ⑥ The **<permacrud>** element defines the permissions that must have been granted to a user to operate on instances of this class.
- ⑥ The **<retrieve>** element is one of four possible children of the **<actions>** element that define the permissions required for each action: create, retrieve, update, and delete.
 - The **permission** attribute identifies the name of the permission that must have been granted to the user to perform the action.
 - The **contextfield** attribute, if it exists, defines the field in this class that identifies the library within the system for which the user must have privileges to work. If a user has been granted a given permission, but has not been granted privileges to work at a given library, they can not perform the action at that library.
- ⑦ The rarely-used **<context>** element identifies a linked field (**link** attribute) in this class which links to an external class that holds the field (**field** attribute) that identifies the library within the system for which the user must have privileges to work.

When you retrieve an instance of a class, you can ask for the result to flesh some or all of the linked fields of that class, so that the linked instances are returned embedded directly in your requested instance. In that same request you can ask for the fleshed instances to in turn have their linked fields fleshed. By bundling all of this into a single request and result sequence, you can avoid the network overhead of requiring the client to request the base object, then request each linked object in turn.

You can also iterate over a collection of instances and set the automatically generated **isdeleted**, **isupdated**, or **isnew** properties to indicate that the given instance has been deleted, updated, or created respectively. Evergreen can then act in batch mode over the collection to perform the requested actions on any of the instances that have been flagged for action.

Returning streaming results

In the previous implementation of the `opensrf.simple-text.split` method, we returned a reference to the complete array of results. For small values being delivered over the network, this is perfectly acceptable, but for large sets of values this can pose a number of problems for the requesting client. Consider a service that returns a set of bibliographic records in response to a query like "all records edited in the past month"; if the underlying database is relatively active, that could result in thousands of records being returned as a single network request. The client would be forced to block until all of the results are returned, likely resulting in a significant delay, and depending on the implementation, correspondingly large amounts of memory might be consumed as all of the results are read from the network in a single block.

OpenSRF offers a solution to this problem. If the method returns results that can be divided into separate meaningful units, you can register the OpenSRF method as a streaming method and enable the client to loop over the results one unit at a time until the method returns no further results. In addition to registering the method with the provided name, OpenSRF also registers an additional method with `.atomic` appended to the method name. The `.atomic` variant gathers all of the results into a single block to return to the client, giving the caller the ability to choose either streaming or atomic results from a single method definition.

In the following example, the text splitting method has been reimplemented to support streaming; very few changes are required:

Text splitting method - streaming mode.

```
sub text_split {
  my $self = shift;
  my $conn = shift;
  my $text = shift;
  my $delimiter = shift || ' ';

  my @split_text = split $delimiter, $text;
  foreach my $string (@split_text) {          # ❶
    $conn->respond($string);
  }
  return undef;
}

__PACKAGE__->register_method(
  method    => 'text_split',
  api_name  => 'opensrf.simple-text.split',
  stream    => 1                               # ❷
);
```

- ❶ Rather than returning a reference to the array, a streaming method loops over the contents of the array and invokes the `respond()` method of the connection object on each element of the array.
- ❷ Registering the method as a streaming method instructs OpenSRF to also register an atomic variant (`opensrf.simple-text.split.atomic`).

Error! Warning! Info! Debug!

As hard as it may be to believe, it is true: applications sometimes do not behave in the expected manner, particularly when they are still under development. The server language bindings for

OpenSRF include integrated support for logging messages at the levels of ERROR, WARNING, INFO, DEBUG, and the extremely verbose INTERNAL to either a local file or to a syslogger service. The destination of the log files, and the level of verbosity to be logged, is set in the `opensrf_core.xml` configuration file. To add logging to our Perl example, we just have to add the `OpenSRF::Utils::Logger` package to our list of used Perl modules, then invoke the logger at the desired logging level.

You can include many calls to the OpenSRF logger; only those that are higher than your configured logging level will actually hit the log. The following example exercises all of the available logging levels in OpenSRF:

```
use OpenSRF::Utils::Logger;
my $logger = OpenSRF::Utils::Logger;
# some code in some function
{
    $logger->error("Hmm, something bad DEFINITELY happened!");
    $logger->warn("Hmm, something bad might have happened.");
    $logger->info("Something happened.");
    $logger->debug("Something happened; here are some more details.");
    $logger->internal("Something happened; here are all the gory details.")
}
```

If you call the mythical OpenSRF method containing the preceding OpenSRF logger statements on a system running at the default logging level of INFO, you will only see the INFO, WARN, and ERR messages, as follows:

Results of logging calls at the default level of INFO.

```
[2010-03-17 22:27:30] opensrf.simple-text [ERR :5681:SimpleText.pm:277:] Hmm, something bad DEFINITELY happened!
[2010-03-17 22:27:30] opensrf.simple-text [WARN:5681:SimpleText.pm:278:] Hmm, something bad might have happened.
[2010-03-17 22:27:30] opensrf.simple-text [INFO:5681:SimpleText.pm:279:] Something happened.
```

If you then increase the the logging level to INTERNAL (5), the logs will contain much more information, as follows:

Results of logging calls at the default level of INTERNAL.

```
[2010-03-17 22:48:11] opensrf.simple-text [ERR :5934:SimpleText.pm:277:] Hmm, something bad DEFINITELY happened!
[2010-03-17 22:48:11] opensrf.simple-text [WARN:5934:SimpleText.pm:278:] Hmm, something bad might have happened.
[2010-03-17 22:48:11] opensrf.simple-text [INFO:5934:SimpleText.pm:279:] Something happened.
[2010-03-17 22:48:11] opensrf.simple-text [DEBUG:5934:SimpleText.pm:280:] Something happened; here are some more
details.
[2010-03-17 22:48:11] opensrf.simple-text [INTL:5934:SimpleText.pm:281:] Something happened; here are all the
gory details.
[2010-03-17 22:48:11] opensrf.simple-text [ERR :5934:SimpleText.pm:283:] Resolver did not find a cache hit
[2010-03-17 22:48:21] opensrf.simple-text [INTL:5934:Cache.pm:125:] Stored opensrf.simple-text.test_cache.masaa
=> "here" in memcached server
[2010-03-17 22:48:21] opensrf.simple-text [DEBUG:5934:Application.pm:579:] Coderef for
[OpenSRF::Application::Demo::SimpleText::test_cache] has been run
[2010-03-17 22:48:21] opensrf.simple-text [DEBUG:5934:Application.pm:586:] A top level Request object is
responding de nada
[2010-03-17 22:48:21] opensrf.simple-text [DEBUG:5934:Application.pm:190:] Method duration for [opensrf.simple-
text.test_cache]: 10.005
[2010-03-17 22:48:21] opensrf.simple-text [INTL:5934:AppSession.pm:780:] Calling queue_wait(0)
[2010-03-17 22:48:21] opensrf.simple-text [INTL:5934:AppSession.pm:769:] Resending...0
[2010-03-17 22:48:21] opensrf.simple-text [INTL:5934:AppSession.pm:450:] In send
[2010-03-17 22:48:21] opensrf.simple-text [DEBUG:5934:AppSession.pm:506:] AppSession sending RESULT to
opensrf@private.localhost/_dan-karmic-liblap_1268880489.752154_5943 with threadTrace [1]
[2010-03-17 22:48:21] opensrf.simple-text [DEBUG:5934:AppSession.pm:506:] AppSession sending STATUS to
opensrf@private.localhost/_dan-karmic-liblap_1268880489.752154_5943 with threadTrace [1]
...
```

To see everything that is happening in OpenSRF, try leaving your logging level set to INTERNAL for a few minutes - just ensure that you have a lot of free disk space available if you have a moderately busy system!

Caching results: one secret of scalability

If you have ever used an application that depends on a remote Web service outside of your control - say, if you need to retrieve results from a microblogging service - you know the pain of latency and dependability (or the lack thereof). To improve response time in OpenSRF applications, you can take advantage of the support offered by the `OpenSRF::Utils::Cache` module for communicating with a local instance or cluster of memcache daemons to store and retrieve persistent values.

```
use OpenSRF::Utils::Cache; # ❶
sub test_cache {
  my $self = shift;
  my $conn = shift;
  my $test_key = shift;
  my $cache = OpenSRF::Utils::Cache->new('global'); # ❷
  my $cache_key = "opensrf.simple-text.test_cache.$test_key"; # ❸
  my $result = $cache->get_cache($cache_key) || undef; # ❹
  if ($result) {
    $logger->info("Resolver found a cache hit");
    return $result;
  }
  sleep 10; # ❺
  my $cache_timeout = 300; # ❻
  $cache->put_cache($cache_key, "here", $cache_timeout); # ❼
  return "There was no cache hit.";
}
```

This example:

- ❶ Imports the `OpenSRF::Utils::Cache` module
- ❷ Creates a cache object
- ❸ Creates a unique cache key based on the OpenSRF method name and request input value
- ❹ Checks to see if the cache key already exists; if so, it immediately returns that value
- ❺ If the cache key does not exist, the code sleeps for 10 seconds to simulate a call to a slow remote Web service, or an intensive process
- ❻ Sets a value for the lifetime of the cache key in seconds
- ❼ When the code has retrieved its value, then it can create the cache entry, with the cache key, value to be stored ("here"), and the timeout value in seconds to ensure that we do not return stale data on subsequent calls

Initializing the service and its children: child labour

When an OpenSRF service is started, it looks for a procedure called `initialize()` to set up any global variables shared by all of the children of the service. The `initialize()` procedure is typically used to retrieve configuration settings from the `opensrf.xml` file.

An OpenSRF service spawns one or more children to actually do the work requested by callers of the service. For every child process an OpenSRF service spawns, the child process clones the parent environment and then each child process runs the `child_init()` process (if any) defined in the OpenSRF service to initialize any child-specific settings.

When the OpenSRF service kills a child process, it invokes the `child_exit()` procedure (if any) to clean up any resources associated with the child process. Similarly, when the OpenSRF service is stopped, it calls the `DESTROY()` procedure to clean up any remaining resources.

Retrieving configuration settings

The settings for OpenSRF services are maintained in the `opensrf.xml` XML configuration file. The structure of the XML document consists of a root element `<opensrf>` containing two child elements:

- `<default>` contains an `<apps>` element describing all OpenSRF services running on this system — see [the section called “Registering a service with the OpenSRF configuration files”](#) --, as well as any other arbitrary XML descriptions required for global configuration purposes. For example, Evergreen uses this section for email notification and inter-library patron privacy settings.
- `<hosts>` contains one element per host that participates in this OpenSRF system. Each host element must include an `<activeapps>` element that lists all of the services to start on this host when the system starts up. Each host element can optionally override any of the default settings.

OpenSRF includes a service named `opensrf.settings` to provide distributed cached access to the configuration settings with a simple API:

- `opensrf.settings.default_config.get`: accepts zero arguments and returns the complete set of default settings as a JSON document
- `opensrf.settings.host_config.get`: accepts one argument (hostname) and returns the complete set of settings, as customized for that hostname, as a JSON document
- `opensrf.settings.xpath.get`: accepts one argument (an [XPath](#) expression) and returns the portion of the configuration file that matches the expression as a JSON document

For example, to determine whether an Evergreen system uses the opt-in support for sharing patron information between libraries, you could either invoke the `opensrf.settings.default_config.get` method and parse the JSON document to determine the value, or invoke the `opensrf.settings.xpath.get` method with the XPath `/opensrf/default/share/user/opt_in` argument to retrieve the value directly.

In practice, OpenSRF includes convenience libraries in all of its client language bindings to simplify access to configuration values. C offers `osrfConfig.c`, Perl offers `OpenSRF::Utils::SettingsClient`, Java offers `org.opensrf.util.SettingsClient`, and Python offers `osrf.set`. These libraries locally cache the configuration file to avoid network roundtrips for every request and enable the developer to request specific values without having to manually construct XPath expressions.

Getting under the covers with OpenSRF

Now that you have seen that it truly is easy to create an OpenSRF service, we can take a look at what is going on under the covers to make all of this work for you.

Get on the messaging bus - safely

One of the core innovations of OpenSRF was to use the Extensible Messaging and Presence Protocol (XMPP, more colloquially known as Jabber) as the messaging bus that ties OpenSRF services together across servers. XMPP is an "XML protocol for near-real-time messaging, presence, and request-response services" (<http://www.ietf.org/rfc/rfc3920.txt>) that OpenSRF relies on to handle most of the complexity of networked communications. OpenSRF achieves a measure of security for its services through the use of public and private XMPP domains; all OpenSRF services automatically register themselves with the private XMPP domain, but only those services that register themselves with the public XMPP domain can be invoked from public OpenSRF clients.

In a minimal OpenSRF deployment, two XMPP users named "router" connect to the XMPP server, with one connected to the private XMPP domain and one connected to the public XMPP domain. Similarly, two XMPP users named "opensrf" connect to the XMPP server via the private and public XMPP domains. When an OpenSRF service is started, it uses the "opensrf" XMPP user to advertise its availability with the corresponding router on that XMPP domain; the XMPP server automatically assigns a Jabber ID (JID) based on the client hostname to each service's listener process and each connected drone process waiting to carry out requests. When an OpenSRF router receives a request to invoke a method on a given service, it connects the requester to the next available listener in the list of registered listeners for that service.

The opensrf and router user names, passwords, and domain names, along with the list of services that should be public, are contained in the `opensrf_core.xml` configuration file.

Message body format

OpenSRF was an early adopter of JavaScript Object Notation (JSON). While XMPP is an XML protocol, the Evergreen developers recognized that the compactness of the JSON format offered a significant reduction in bandwidth for the volume of messages that would be generated in an application of that size. In addition, the ability of languages such as JavaScript, Perl, and Python to generate native objects with minimal parsing offered an attractive advantage over invoking an XML parser for every message. Instead, the body of the XMPP message is a simple JSON structure. For a simple request, like the following example that simply reverses a string, it looks like a significant overhead: but we get the advantages of locale support and tracing the request from the requester through the listener and responder (drone).

A request for `opensrf.simple-text.reverse("foobar")`:

```
<message from='router@private.localhost/opensrf.simple-text'
  to='opensrf@private.localhost/opensrf.simple-text_listener_at_localhost_6275'
  router_from='opensrf@private.localhost/_karmic_126678.3719_6288'
  router_to='' router_class='' router_command='' osrf_xid=''
>
  <thread>1266781414.366573.12667814146288</thread>
  <body>
  [
    { "c": "osrfMessage", "p":
      { "threadTrace": "1", "locale": "en-US", "type": "REQUEST", "payload":
        { "c": "osrfMethod", "p":
          { "method": "opensrf.simple-text.reverse", "params": ["foobar"]}
        }
      }
    }
  ]
]
```

```
</body>
</message>
```

A response from `opensrf.simple-text.reverse("foobar")`.

```
<message from='opensrf@private.localhost/opensrf.simple-text_drone_at_localhost_6285'
to='opensrf@private.localhost/_karmic_126678.3719_6288'
router_command='' router_class='' osrf_xid=''
>
<thread>1266781414.366573.12667814146288</thread>
<body>
[
  {"__c__": "osrfMessage", "__p__":
  {"threadTrace": "1", "payload":
  {"__c__": "osrfResult", "__p__":
  {"status": "OK", "content": "raboof", "statusCode": 200}
  } , "type": "RESULT", "locale": "en-US"}
  },
  {"__c__": "osrfMessage", "__p__":
  {"threadTrace": "1", "payload":
  {"__c__": "osrfConnectStatus", "__p__":
  {"status": "Request Complete", "statusCode": 205}
  } , "type": "STATUS", "locale": "en-US"}
  }
]
</body>
</message>
```

The content of the `<body>` element of the OpenSRF request and result should look familiar; they match the structure of the [OpenSRF over HTTP examples](#) that we previously dissected.

Registering OpenSRF methods in depth

Let's explore the call to `__PACKAGE__->register_method()`; most of the elements of the hash are optional, and for the sake of brevity we omitted them in the previous example. As we have seen in the results of the [introspection call](#), a verbose registration method call is recommended to better enable the internal documentation. So, for the sake of completeness here, is the set of elements that you should pass to `__PACKAGE__->register_method()`:

- **method**: the name of the procedure in this module that is being registered as an OpenSRF method
- **api_name**: the invocable name of the OpenSRF method; by convention, the OpenSRF service name is used as the prefix
- **api_level**: (optional) can be used for versioning the methods to allow the use of a deprecated API, but in practical use is always 1
- **argc**: (optional) the minimal number of arguments that the method expects
- **stream**: (optional) if this argument is set to any value, then the method supports returning multiple values from a single call to subsequent requests, and OpenSRF automatically creates a corresponding method with ".atomic" appended to its name that returns the complete set of results in a single request; streaming methods are useful if you are returning hundreds of records and want to act on the results as they return
- **signature**: (optional) a hash describing the method's purpose, arguments, and return value
 - **desc**: a description of the method's purpose

- **params**: an array of hashes, each of which describes one of the method arguments
 - **name**: the name of the argument
 - **desc**: a description of the argument's purpose
 - **type**: the data type of the argument: for example, string, integer, boolean, number, array, or hash
- **return**: a hash describing the return value of the method
 - **desc**: a description of the return value
 - **type**: the data type of the return value: for example, string, integer, boolean, number, array, or hash

Evergreen-specific OpenSRF services

Evergreen is currently the primary showcase for the use of OpenSRF as an application architecture. Evergreen 2.6.0 includes the following set of OpenSRF services:

- **open-ils.acq** Supports tasks for managing the acquisitions process
- **open-ils.actor**: Supports common tasks for working with user accounts and libraries.
- **open-ils.auth**: Supports authentication of Evergreen users.
- **open-ils.auth_proxy**: Support using external services such as LDAP directories to authenticate Evergreen users
- **open-ils.cat**: Supports common cataloging tasks, such as creating, modifying, and merging bibliographic and authority records.
- **open-ils.circ**: Supports circulation tasks such as checking out items and calculating due dates.
- **open-ils.collections**: Supports tasks to assist collections services for contacting users with outstanding fines above a certain threshold.
- **open-ils.cstore**: Supports unrestricted access to Evergreen fieldmapper objects. This is a private service.
- **open-ils.fielder**
- **open-ils.justintime**: Support tasks for determining if an action/trigger event is still valid
- **open-ils.pcrud**: Supports access to Evergreen fieldmapper objects, restricted by staff user permissions. This is a private service. objects.
- **open-ils.permacrud**: Supports access to Evergreen fieldmapper objects, restricted by staff user permissions. This is a private service.

- **open-ils.reporter**: Supports the creation and scheduling of reports.
- **open-ils.reporter-store**: Supports access to Evergreen fieldmapper objects for the reporting service. This is a private service.
- **open-ils.resolver** Support tasks for integrating with an OpenURL resolver.
- **open-ils.search**: Supports searching across bibliographic records, authority records, serial records, Z39.50 sources, and ZIP codes.
- **open-ils.serial**: Support tasks for serials management
- **open-ils.storage**: A deprecated method of providing access to Evergreen fieldmapper objects. Implemented in Perl, this service has largely been replaced by the much faster C-based **open-ils.cstore** service.
- **open-ils.supercat**: Supports transforms of MARC records into other formats, such as MODS, as well as providing Atom and RSS feeds and SRU access.
- **open-ils.trigger**: Supports event-based triggers for actions such as overdue and holds available notification emails.
- **open-ils.url_verify**: Support tasks for validating URLs
- **open-ils.vandelay**: Supports the import and export of batches of bibliographic and authority records.
- **opensrf.settings**: Supports communicating opensrf.xml settings to other services.

Of some interest is that the **open-ils.reporter-store** and **open-ils.cstore** services have identical implementations. Surfacing them as separate services enables a deployer of Evergreen to ensure that the reporting service does not interfere with the performance-critical **open-ils.cstore** service. One can also direct the reporting service to a read-only database replica to, again, avoid interference with **open-ils.cstore** which must write to the master database.

There are only a few significant services that are not built on OpenSRF, such as the SIP and Z39.50 servers. These services implement different protocols and build on existing daemon architectures (Simple2ZOOM for Z39.50), but still rely on the other OpenSRF services to provide access to the Evergreen data. The non-OpenSRF services are reasonably self-contained and can be deployed on different servers to deliver the same sort of deployment flexibility as OpenSRF services, but have the disadvantage of not being integrated into the same configuration and control infrastructure as the OpenSRF services.

Evergreen after one year: reflections on OpenSRF

[Project Conifer](#) has been live on Evergreen for just over a year now, and as one of the primary technologists I have had to work closely with the OpenSRF infrastructure during that time. As such, I am in a position to identify some of the strengths and weaknesses of OpenSRF based on our experiences.

Strengths of OpenSRF

As a service infrastructure, OpenSRF has been remarkably reliable. We initially deployed Evergreen on an unreleased version of both OpenSRF and Evergreen due to our requirements for some functionality that had not been delivered in a stable release at that point in time, and despite this risky move we suffered very little unplanned downtime in the opening months. On July 27, 2009 we moved to a newer (but still unreleased) version of the OpenSRF and Evergreen code, and began formally tracking our downtime. Since then, we have achieved more than 99.9% availability - including scheduled downtime for maintenance. This compares quite favourably to the maximum of 75% availability that we were capable of achieving on our previous library system due to the nightly downtime that was required for our backup process. The OpenSRF "maximum request" configuration parameter for each service that kills off drone processes after they have served a given number of requests provides a nice failsafe for processes that might otherwise suffer from a memory leak or hung process. It also helps that when we need to apply an update to a Perl service that is running on multiple servers, we can apply the updated code, then restart the service on one server at a time to avoid any downtime.

As promised by the OpenSRF infrastructure, we have also been able to tune our cluster of servers to provide better performance. For example, we were able to change the number of maximum concurrent processes for our database services when we noticed that we were seeing a performance bottleneck with database access. Making a configuration change go live simply requires you to restart the `opensrf.setting` service to pick up the configuration change, then restart the affected service on each of your servers. We were also able to turn off some of the less-used OpenSRF services, such as `open-ils.collections`, on one of our servers to devote more resources on that server to the more frequently used services and other performance-critical processes such as Apache.

The support for logging and caching that is built into OpenSRF has been particularly helpful with the development of a custom service for SFX holdings integration into our catalogue. Once I understood how OpenSRF works, most of the effort required to build that SFX integration service was spent on figuring out how to properly invoke the SFX API to display human-readable holdings. Adding a new OpenSRF service and registering several new methods for the service was relatively easy. The support for directing log messages to syslog in OpenSRF has also been a boon for both development and debugging when problems arise in a cluster of five servers; we direct all of our log messages to a single server where we can inspect the complete set of messages for the entire cluster in context, rather than trying to piece them together across servers.

Weaknesses

The primary weakness of OpenSRF is the lack of either formal or informal documentation for OpenSRF. There are many frequently asked questions on the Evergreen mailing lists and IRC channel that indicate that some of the people running Evergreen or trying to run Evergreen have not been able to find documentation to help them understand, even at a high level, how the OpenSRF Router and services work with XMPP and the Apache Web server to provide a working Evergreen system. Also, over the past few years several developers have indicated an interest in developing Ruby and PHP bindings for OpenSRF, but the efforts so far have resulted in no working code. Without a formal specification, clearly annotated examples, and unit tests for the major OpenSRF communication use cases that could be ported to the new language as a base set of expectations for a working binding, the hurdles for a developer new to OpenSRF are significant. As a result,

Evergreen integration efforts with popular frameworks like Drupal, Blacklight, and VuFind result in the best practical option for a developer with limited time — database-level integration — which has the unfortunate side effect of being much more likely to break after an upgrade.

In conjunction with the lack of documentation that makes it hard to get started with the framework, a disincentive for new developers to contribute to OpenSRF itself is the lack of integrated unit tests. For a developer to contribute a significant, non-obvious patch to OpenSRF, they need to manually run through various (undocumented, again) use cases to try and ensure that the patch introduced no unanticipated side effects. The same problems hold for Evergreen itself, although the [Constrictor](#) stress-testing framework offers a way of performing some automated system testing and performance testing.

These weaknesses could be relatively easily overcome with the effort through contributions from people with the right skill sets. This article arguably offers a small set of clear examples at both the networking and application layer of OpenSRF. A technical writer who understands OpenSRF could contribute a formal specification to the project. With a formal specification at their disposal, a quality assurance expert could create an automated test harness and a basic set of unit tests that could be incrementally extended to provide more coverage over time. If one or more continual integration environments are set up to track the various OpenSRF branches of interest, then the OpenSRF community would have immediate feedback on build quality. Once a unit testing framework is in place, more developers might be willing to develop and contribute patches as they could sanity check their own code without an intense effort before exposing it to their peers.

Summary

In this article, I attempted to provide both a high-level and detailed overview of how OpenSRF works, how to build and deploy new OpenSRF services, how to make requests to OpenSRF method from OpenSRF clients or over HTTP, and why you should consider it a possible infrastructure for building your next high-performance system that requires the capability to scale out. In addition, I surveyed the Evergreen services built on OpenSRF and reflected on the strengths and weaknesses of the platform based on the experiences of Project Conifer after a year in production, with some thoughts about areas where the right application of skills could make a significant difference to the Evergreen and OpenSRF projects.

Appendix: Python client

Following is a Python client that makes the same OpenSRF calls as the Perl client:

```
#!/usr/bin/env python
"""OpenSRF client example in Python"""
import osrf.system
import osrf.ses

def osrf_substring(session, text, sub):
    """substring: Accepts a string and a number as input, returns a string"""
    request = session.request('opensrf.simple-text.substring', text, sub)

    # Retrieve the response from the method
    # The timeout parameter is optional
    response = request.recv(timeout=2)

    request.cleanup()
    # The results are accessible via content()
```

```

    return response.content()

def osrf_split(session, text, delim):
    """split: Accepts two strings as input, returns an array of strings"""
    request = session.request('opensrf.simple-text.split', text, delim)
    response = request.recv()
    request.cleanup()
    return response.content()

def osrf_statistics(session, strings):
    """statistics: Accepts an array of strings as input, returns a hash"""
    request = session.request('opensrf.simple-text.statistics', strings)
    response = request.recv()
    request.cleanup()
    return response.content()

if __name__ == "__main__":
    file = '/openils/conf/opensrf_core.xml'

    # Pull connection settings from <config><opensrf> section of opensrf_core.xml
    osrf.system.System.connect(config_file=file, config_context='config.opensrf')

    # Set up a connection to the opensrf.settings service
    session = osrf.ses.ClientSession('opensrf.simple-text')

    result = osrf_substring(session, "foobar", 3)
    print(result)
    print

    result = osrf_split(session, "This is a test", " ")
    print("Received %d elements: [" % len(result)),
    print(', '.join(result), ']')

    many_strings = (
        "First I think I'll have breakfast",
        "Then I think that lunch would be nice",
        "And then seventy desserts to finish off the day"
    )
    result = osrf_statistics(session, many_strings)
    print("Length: %d" % result["length"])
    print("Word count: %d" % result["word_count"])

    # Cleanup connection resources
    session.cleanup()

```



Python's **dnspython** module refuses to read `/etc/resolv.conf`, so to access hostnames that are not served up via DNS, such as the extremely common case of **localhost**, you may need to install a package like **dnsmasq** to act as a local DNS server for those hostnames.

Chapter 146. Updating translations using Launchpad

This document describes how to update the translations in an Evergreen branch by pulling them from Launchpad, as well as update the files to be translated in Launchpad by updating the POT files in the Evergreen master branch.

Prerequisites

You must install all of the Python prerequisites required for building translations, per <http://evergreen-ils.org/dokuwiki/doku.php?id=evergreen-admin:customizations:i18n>

- [polib](#)
- [translate-toolkit](#)
- [levenshtein](#)
- [setuptools](#)
- [simplejson](#)
- [xml](#)

Updating the translations

1. Check out the latest translations from Launchpad by branching the Bazaar repository:

```
bzr branch lp:~denials/evergreen/translation-export
```

This creates a directory called "translation-export".

2. Ensure you have an updated Evergreen release branch.
3. Run the **build/i18n/scripts/update_pofiles** script to copy the translations into the right place and avoid any updates that are purely metadata (dates generated, etc).
4. Commit the lot! And backport to whatever release branches need the updates.
5. Build updated POT files:

```
cd build/i18n
make newpot
```

This will extract all of the strings from the latest version of the files in Evergreen.

6. (This part needs automation): Then, via the magic of **git diff** and **git add**, go through all of the changed files and determine which ones actually have string changes. Recommended approach is to re-run **git diff** after each **git add**.

7. Commit the updated POT files and backport to the pertinent release branches.

Part XV. Getting Data from Evergreen

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Chapter 147. Introduction

You may be interested in re-using data from your Evergreen installation in another application. This part describes several methods to get the data you need.

Chapter 148. Using Supercat

Introduction

You can use SuperCat to get data about ISBNs, metarecords, bibliographic records, and authority records.

Throughout this section, replace `<hostname>` with the domain or subdomain of your Evergreen installation to try these examples on your own system.

ISBNs

Given one ISBN, Evergreen can return a list of related records and ISBNs, including alternate editions and translations. To use the Supercat oISBN tool, use http or https to access the following URL.

`http://<hostname>/opac/extras/oisbn/<ISBN_to_query>`

For example, the URL <http://gapines.org/opac/extras/oisbn/0439136350> returns the following list of catalog record IDs and ISBNs:

```
<?xml version='1.0' encoding='UTF-8' ?>
<idlist metarecord='436139'>
  <isbn record='5652044'>9780606323475</isbn>
  <isbn record='5767568'>9780780673809</isbn>
  <isbn record='1350528'>9780807286029</isbn>
  <isbn record='5708164'>9780780669642</isbn>
  <isbn record='2372013'>043965548X</isbn>
  <isbn record='5804511'>8498386969</isbn>
  <isbn record='4132282'>9780786222742</isbn>
  <isbn record='1530458'>9788478885190</isbn>
  <isbn record='2003291'>0736650962</isbn>
  <isbn record='1993002'>8478885196</isbn>
  <isbn record='1187595'>9780439554923</isbn>
  <isbn record='4591175'>8478885196</isbn>
  <isbn record='5676282'>0807282324</isbn>
  <isbn record='2363352'>8478885196</isbn>
  <isbn record='2315122'>1480614998</isbn>
  <isbn record='2304130'>8478886559</isbn>
  <isbn record='2012565'>9780613371063</isbn>
  <isbn record='5763645'>9782070528189</isbn>
  <isbn record='2383286'>0786222743</isbn>
  <isbn record='2489670'>9780329232696</isbn>
  <isbn record='1681685'>9780807282311</isbn>
  <isbn record='2160095'>0807286028</isbn>
  <isbn record='2219885'>9789500421157</isbn>
  <isbn record='1934218'>9780613359580</isbn>
  <isbn record='5682871'>9781594130021</isbn>
  <isbn record='1281164'>0807283150</isbn>
  <isbn record='1666656'>0747542155</isbn>
  <isbn record='4717734'>8478886559</isbn>
</idlist>
```

Records

Record formats

First, determine which format you'd like to receive data in. To see the available formats for bibliographic records, visit

<http://<hostname>/opac/extras/supercat/formats/record>

Similarly, authority record formats can be found at <http://libcat.linnbenton.edu/opac/extras/supercat/formats/authority> and metarecord formats can be found at <http://libcat.linnbenton.edu/opac/extras/supercat/formats/metarecord>

For example, <http://gapines.org/opac/extras/supercat/formats/authority> shows that the Georgia Pines catalog can return authority records in the formats opac, marc21, marc21-full, and marc21-uris. Supercat also includes the MIME type of each format, and sometimes also refers to the documentation for a particular format.

```
<?xml version='1.0' encoding='UTF-8' ?>
<formats>
  <format>
    <name>opac</name>
    <type>text/html</type>
  </format>
  <format>
    <name>marc21</name>
    <type>application/xml</type>
    <docs>http://www.loc.gov/marc/</docs>
  </format>
  <format>
    <name>marc21-full</name>
    <type>application/xml</type>
    <docs>http://www.loc.gov/marc/</docs>
  </format>
  <format>
    <name>marc21-uris</name>
    <type>application/xml</type>
    <docs>http://www.loc.gov/marc/</docs>
  </format>
</formats>
```



atom-full is currently the only format that includes holdings and availability data for a given bibliographic record.

Retrieve records

You can retrieve records using URLs in the following format:

<http://<hostname>/opac/extras/supercat/retrieve/<format>/<record-type>/<record-ID>>

For example, <http://gapines.org/opac/extras/supercat/retrieve/mods/record/33333> returns the following record.

```
<?xml version="1.0"?>
<modsCollection xmlns="http://www.loc.gov/mods/" xmlns:mods="http://www.loc.gov/mods/" version="3.0">
```

```

<mods xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:mods="http://www.loc.gov/mods/"
xsi:schemaLocation="http://www.loc.gov/mods/ http://www.loc.gov/standards/mods/mods.xsd">
  <titleInfo>
    <title>Words and pictures /</title>
  </titleInfo>
  <name type="personal">
    <namePart xmlns:xlink="http://www.w3.org/TR/xlink">Dodd, Siobhan</namePart>
    <role>
      <text>creator</text>
    </role>
  </name>
  <typeOfResource xmlns:xlink="http://www.w3.org/TR/xlink">text</typeOfResource>
  <originInfo xmlns:xlink="http://www.w3.org/TR/xlink">
    <place>
      <code authority="marc">mau</code>
    </place>
    <place>
      <text>Cambridge, Mass</text>
    </place>
    <publisher>Candlewick Press</publisher>
    <dateIssued>1992</dateIssued>
    <edition>1st U.S. ed.</edition>
    <issuance>monographic</issuance>
  </originInfo>
  <language authority="iso639-2b">eng</language>
  <physicalDescription>
    <form authority="marcform">print</form>
    <extent>1 v. (unpaged) : col. ill. ; 26 cm.</extent>
  </physicalDescription>
  <abstract>Simple text with picture cues accompany illustrations depicting scenes of everyday life familiar
to children, such as getting dressed, attending a party, playing in the park, and taking a bath.</abstract>
  <targetAudience>juvenile</targetAudience>
  <note type="statement of responsibility">Siobhan Dodds.</note>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcshac">
    <topic>Family life</topic>
    <topic>Fiction</topic>
  </subject>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcsh">
    <topic>Vocabulary</topic>
    <topic>Juvenile fiction</topic>
  </subject>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcsh">
    <topic>Rebuses</topic>
  </subject>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcsh">
    <topic>Picture puzzles</topic>
    <topic>Juvenile literature</topic>
  </subject>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcsh">
    <topic>Picture books for children</topic>
  </subject>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcsh">
    <topic>Picture dictionaries, English</topic>
    <topic>Juvenile literature</topic>
  </subject>
  <subject xmlns:xlink="http://www.w3.org/TR/xlink" authority="lcsh">
    <topic>Vocabulary</topic>
    <topic>Juvenile literature</topic>
  </subject>
  <classification authority="lcc">PZ7.D66275 Wo 1992</classification>
  <classification authority="lcc">PN6371.5 .D63 1992x</classification>
  <classification authority="ddc" edition="20">793.73</classification>
  <identifier type="isbn">1564020428 :</identifier>
  <identifier type="isbn">9781564020420</identifier>
  <identifier type="lccn">91071817</identifier>
  <recordInfo xmlns:xlink="http://www.w3.org/TR/xlink">
    <recordContentSource>DLC</recordContentSource>
  </recordInfo>
</mods>

```

```
<recordCreationDate encoding="marc">920206</recordCreationDate>
<recordChangeDate encoding="iso8601">20110608231047.0</recordChangeDate>
<recordIdentifier source="GaAaGPL">33333</recordIdentifier>
</recordInfo>
</mods>
</modsCollection>
```

Recent records

SuperCat can return feeds of recently edited or created authority and bibliographic records:

<http://<hostname>/opac/extras/feed/freshmeat/<feed-type>/<record-type>/<import-or-edit>/<limit>/<date>>

Note the following features:

- The limit records imported or edited following the supplied date will be returned. If you do not supply a date, then the most recent limit records will be returned.
- If you do not supply a limit, then up to 10 records will be returned.
- feed-type can be one of atom, html, htmlholdings, marcxml, mods, mods3, or rss2.

Example: <http://gapines.org/opac/extras/feed/freshmeat/atom/biblio/import/10/2008-01-01>

Filtering by Org Unit

You can generate a similar list, with the added ability to limit by Org Unit, using the item-age browse axis.

To produce an RSS feed by item date rather than bib date, and to restrict it to a particular system within a consortium:

Example: <http://gapines.org/opac/extras/browse/atom/item-age/ARL-BOG/1/10>

Note the following:

- ARL-BOG should be the short name of the org unit you're interested in
- 1 is the page (since you are browsing through pages of results)
- 10 is the number of results to return per page

Modifying the atom portion of the URL to atom-full will include catalog links in the results:

Example: <http://gapines.org/opac/extras/browse/atom-full/item-age/ARL-BOG/1/10>

Modifying the atom portion of the URL to html-full will produce an HTML page that is minimally formatted:

Example: <http://gapines.org/opac/extras/browse/html-full/item-age/ARL-BOG/1/10>

Chapter 149. Using UnAPI

Evergreen's unAPI support includes access to many record types. For example, the following URL would fetch bib 267 in MODS32 along with holdings, volume, copy, and record attribute information:

https://example.org/opac/extras/unapi?id=tag::U2@bre/267{holdings_xml,acn,acp,mra}&format=mods32

To access the new unAPI features, the unAPI ID should have the following form:

- **tag::U2@**
- followed by class name, which may be
- **bre** (bibs)
- **biblio_record_entry_feed** (multiple bibs)
- **ac1** (copy locations)
- **acn** (volumes)
- **acnp** (call number prefixes)
- **acns** (call number suffixes)
- **acp** (copies)
- **acpn** (copy notes)
- **aou** (org units)
- **ascecm** (copy stat cat entries)
- **auri** (located URIs)
- **bmp** (monographic parts)
- **cbs** (bib sources)
- **ccs** (copy statuses)
- **circ** (loan checkout and due dates)
- **holdings_xml** (holdings)
- **mmr** (metarecords)
- **mmr_holdings_xml** (metarecords with holdings)
- **mmr_mra** (metarecords with record attributes)
- **mra** (record attributes)

- **sbsum** (serial basic summaries)
- **sdist** (serial distributions)
- **sis** (serial issues)
- **sisum** (serial index summaries)
- **sitem** (serial items)
- **ssum** (serial supplement summaries)
- **sstr** (serial streams)
- **ssub** (serial subscriptions)
- **sunit** (serial units)
- followed by /
- followed by a record identifier (or in the case of the **biblio_record_entry_feed** class, multiple IDs separated by commas)
- followed, optionally, by limit and offset in square brackets
- followed, optionally, by a comma-separated list of "includes" enclosed in curly brackets. The list of includes is the same as the list of classes with the following addition:
- **bre.extern** (information from the non-MARC parts of a bib record)
- followed, optionally, by / and org unit; "-" signifies the top of the org unit tree
- followed, optionally, by / and org unit depth
- followed, optionally, by / and a path. If the path is **barcode** and the class is **acp**, the record ID is taken to be a copy barcode rather than a copy ID; for example, in **tag::U2@acp/ACQ140{acn,bre,mra}/-/0/barcode, ACQ140** is meant to be a copy barcode.
- followed, optionally, by **&format=** and the format in which the record should be retrieved. If this part is omitted, the list of available formats will be retrieved.

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Appendix C. Admonitions

- Note



- warning



- caution



- tip



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