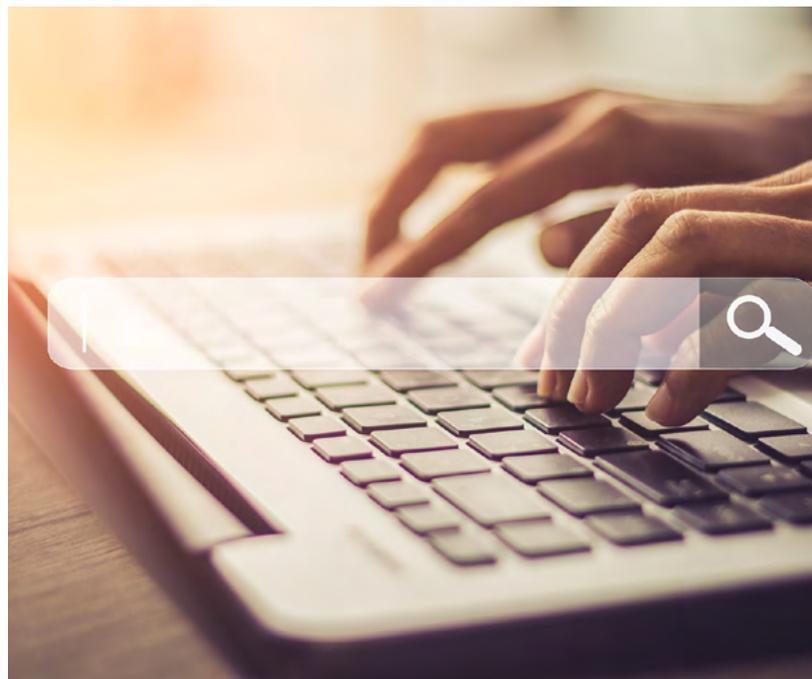




# 2023 *Year in Review*



Consulting • Migration • Development • Hosting & Support • Training & Education

# 2023 Highlights

## JANUARY 2023

### *Aspen Discovery*

- » [Skagit Evergreen Libraries](#)



## FEBRUARY 2023

### *Development*

- » Fulfillment Baseline Upgrade & 11.0 Release

### *Conferences*

- » [Ontario Library Association Super Conference 2023](#)
- » [2023 NISO Plus Conference](#)
  - "A Tiny Library with a Million Volumes."

### *Evergreen Migration*

- » [Barton County Library](#)

### *Koha Migration*

- » [Snow College](#)

## MARCH 2023

### *Development*

- » Barcode Permissions Fixes
- » Parts Bugfix—Renaming
- » Parts Bugfix—Block Title Holds
- » Serials Rewrite Specifications
- » Reports Security Specifications

### *Conferences*

- » [Association of College and Research Libraries 2023 Conference](#)
- » [Code4Lib 2023](#)

### *Fulfillment*

- » [Fulfillment 11 with Koha Connector](#)

## APRIL 2023

### *Development*

- » VuFind® Theme
- » Aspen Discovery—Evergreen Driver Improvements
- » Metabib Fingerprinting Analysis
- » Angular 15 / Bootstrap 5 Update
- » Revisions to [Developer Accessibility Guide](#)

### *VuFind®*

- » [Equinox Announces Accessible VuFind® Theme](#)

### *Conferences*

- » [2023 Connecticut Library Association Conference](#)
- » [2023 Missouri Evergreen Users Conference](#)
  - "Collaborating with Missouri Evergreen: Equinox's Role."
  - "Client Update."
- » [2023 Evergreen International Conference](#)
  - "Assembling the Blocks: Building and Releasing Evergreen."
  - "Accessibility & Evergreen."

- "Interest Group—User Interface/User Experience."
- "Circulating Seeds."
- "New Features in Evergreen 3.10 and 3.11."
- "Hosting Evergreen in Production."
- "Authority-Fest Redux."
- "Standing Requirements: The Explicit and Implicit Expectations of Evergreen."
- "Interest Group—Cataloging."
- "Making Life Easier with NCIP."
- "Hey, What are You Doing Back There? Exposing Some of Evergreen's More Useful Features through OpenAPI."
- "Slouching towards BIBFRAME: An Overview of Current Possibilities."
- "Achieving Fulfillment."
- "Developer Update."
- "Evergreen Inventory"
- "On the Proper Use of Pillows in Evergreen"
- "Community Onboarding."

### *Evergreen Migration*

- » [Homer Public Library](#)

## MAY 2023

### *Development*

- » Acquisitions Orders & Z39.50 Specifications

### *Conferences*

- » [Connecticut Library Association Conference 2023](#)
  - "Resource Sharing with requestIT CT and the Fulfillment Platform."

### *Evergreen and Aspen Discovery Migration*

- » [Traverse De Sioux Library Cooperative](#)

## JUNE 2023

### *Development*

- » [Accessibility Bugfixes](#)
- » [RESTful API Investigation & Report](#)
- » [Coral Community Work](#)

### *Conferences*

- » [2023 New Jersey Library Association Annual Conference](#)
- » [2023 American Library Association Annual Conference](#)
  - ["Executive Perspectives: A Conversation on the Future of the Library Technology Industry."](#)
  - ["Leading Accessibility Initiatives in Open Source Library Software."](#)
  - ["Bringing Information Together: Best Practices for Implementing CORAL ERM."](#)

### *Evergreen*

- » [Equinox Announces Major Features in Evergreen 3.11](#)

## JULY 2023

### *Development*

- » [Angular Link Checker Development](#)

### *Evergreen Migration*

- » [Saint Joseph Public Library](#)
- » [Mississippi County Library District](#)

## SEPTEMBER 2023

### *Development*

- » [Custom Org Unit Tree Development](#)
- » [Multi Factor Authentication Investigation](#)
- » [Acquisitions: Invoices & Claims Development](#)
- » [Angular Reports Development](#)
- » [Angular Record Buckets Specifications](#)

## AUGUST 2023

### *Development*

- » [Patron Opt In Specifications](#)
- » [Added Content Tab Development](#)
- » [X12 EDI Specifications](#)

### *Conferences*

- » [WOLFCon 2023](#)
  - ["Layers of Accessibility in Open Source."](#)
- » [Evergreen UI Interest Group](#)
  - ["Finding HTML & CSS Files in Evergreen."](#)

### *Koha Migration*

- » [Library Company of Philadelphia](#)
- » [German Society of Pennsylvania](#)
- » [Wagner Free Institute of Science](#)
- » [Pennsylvania Horticultural Society](#)
- » [Rosenbach Museum and Library](#)

### *Evergreen Migration*

- » [Cape Girardeau](#)
- » [Nevada Public Library](#)

### *Aspen Discovery*

- » [OWWL Library System](#)

## OCTOBER 2023

### *Partnerships*

- » [collectionHQ and Equinox Announce Partnership](#)

### *Development*

- » [Acquisitions: Orders & Z39.50 Development](#)
- » [Enhanced MARC Editor Rewrite Development](#)
- » [Eg-tree Rewrite Development](#)

### *Conferences*

- » [Pennsylvania Library Association 2023 Conference](#)
- » [Evergreen Hack-A-Way](#)

### *Aspen Discovery*

- » [Coalition of Ohio Libraries \(COOL\)](#)

## NOVEMBER 2023

### *Development*

- » [Lassos & Shelving Groups Development](#)
- » [Evergreen Indiana Bugfixes](#)

### *Evergreen Migration*

- » [Morgan County Library](#)

### *Conferences*

- » [2023 CORAL Community Meeting](#)

## DECEMBER 2023

### *Development*

- » [Reports Security Development](#)
- » [Angular Circ Review & Bugfixes](#)
- » [RESTful API Suite Specifications](#)



# Accessibility

In June, Equinox traveled to Chicago to present a poster, "Leading Accessibility Initiatives in Open Source Library Software," at the 2023 ALA Annual Conference. The poster delineates the four major categories of disabilities: visual, hearing, mobility, and cognitive disorders. We illustrated eleven user interface elements and demonstrated how issues with the design—many of which are invisible—can create barriers for people with each type of disability. The poster serves as a quick visual guide to the intersections and conflicts between accessible design considerations for different types of disabilities.

The poster also includes a brief introduction to the Web Content Accessibility Guidelines—the international standard that forms the basis of accessibility laws around the world—and a summary of our recent work to improve accessibility in the Evergreen staff interfaces and our new VuFind® theme.

## Highlights

- » ["Leading Accessibility Initiatives in Open Source Library Software." American Library Association Annual Conference 2023, Poster Session.](#)
- » [equinoxEDU: Spotlight on Accessibility in Open Source Projects](#)
- » [Equinox Announces Accessible VuFind® Theme](#)
- » [Equinox Presents on Open Source Accessibility at WOLFCOn 2023](#)

# Leading

Learn how Equinox is developing



Equinox is a 501(c)(3) nonprofit dedicated to providing outstanding technology services for libraries. Equinox offers consulting, support, training, and development for open source products including Evergreen ILS, Koha ILS, Aspen Discovery, and VuFind®.



## Visual

Blindness  
Low vision  
Color blindness  
Visual triggers: seizures, migraines, vertigo

## Button Size

Larger buttons are **easier to see** for people with low vision.

People with mobility issues struggle to press small buttons. A **larger hit target** helps people whose mouse movements are imprecise. Large buttons stand out from the surrounding text. For people with cognitive disabilities, it's easier to **decide what to press** if the buttons are larger.



## Form Labels

Screen reader users need **labels associated with every form field** so they know what to enter.

Labels provide a larger hit target for people with mobility issues. Clicking anywhere in the label area will place **keyboard focus** on the associated form field.

Using persistent, visible labels helps people **remember what to enter** into each field.



## Plain Language

Screen reader users listen at very high speeds—unless they have to **slow down** when they encounter **unfamiliar words**.

Using jargon can also add challenges. For example, it can be difficult for **sign language interpreters** to convey.

Plain language helps make labels and instructions clear to **early career professionals and language learners** as well as those with cognitive disabilities.

# Equinox Accessibility Initiatives on Open Source Library Software

Equinox produces accessible open source software to support the specific needs of library workers and library patrons.



Equinox recently completed extensive accessibility development for Evergreen. Projects included end-user improvements and behind-the-scenes work which will facilitate future accessibility enhancements. Additional major accessibility projects are currently in progress.



Equinox produced a fully redesigned and accessible theme for VuFind® (available at [github.com/EquinoxOpenLibraryInitiative/equinox-theme-vufind](https://github.com/EquinoxOpenLibraryInitiative/equinox-theme-vufind)). VuFind® is a comprehensive discovery layer suitable for academic, public, and special libraries.



King County Library System (KCLS) serves 1.3 million residents in King County, Washington, USA. KCLS partnered with Equinox to fund technical audits and accessibility development with a focus on the Evergreen staff client.



## Hearing

Deaf  
Hard of hearing  
Auditory processing disorder



## Mobility

Paralysis  
Tremors  
Neuropathy  
Physical injury  
Chronic pain



## Cognitive

Memory  
Language  
Learning  
Attention  
Sensory processing

## Captions & Transcripts

Audio and video content must have captions or transcripts for those who are Deaf or hard of hearing.

Captions are also helpful for people with auditory processing issues, ADHD, and other sensory input disorders that make it difficult to focus on two modes of communication at once.

Captions make it possible for everyone to watch videos in noisy environments like airports, bars, and buses.

## Color Contrast

Good color contrast helps people with low vision, who often struggle to read text with subtle colors.

Strong contrast helps people distinguish links and buttons from the surrounding text.

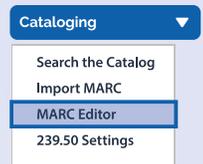
Too much contrast may create a visually loud design for people with some sensory disorders. Forced colors and Windows High Contrast modes may require fine-tuning images and borders.



## Focus Outlines

Focused elements should have a bold outline to help keyboard and switch button users stay oriented. Outlines can be different depending whether the element was focused using a keyboard or mouse.

People who are interrupted can pick up where they left off more easily when focused form fields have bold outlines.



## Headings & Landmarks

Screen readers give users a menu of landmarks and headings that can be used to skim the page.

Multiple landmarks with the same role, like navigation, should have distinct names via ARIA labels.

Visually distinctive headings prevent confusion and help people stay oriented.



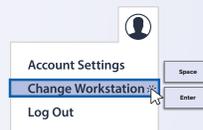
## Keyboard Controls

Screen reader users do not use mouse pointers.

Every interactive element has to be operable using the keyboard.

People whose mouse movements are imprecise may also find it easier to navigate forms and menus using the keyboard.

Buttons can be pressed using Space or Enter keys.



## Link & Button Names

Multiple links or buttons with the same accessible name can be distinguished from one another with ARIA descriptions.

Icon buttons should have tooltips to help clarify the icons' meaning.

Accessible names should match the visible text or tooltip so speech recognition users can dictate their choices accurately.



## Semantic HTML

Different tags have implicit roles that are announced to screen readers.

The role tells the user which keyboard or switch button actions they can use. Incorrect roles can prevent users from accomplishing their tasks.

Users with memory or attention deficit issues may forget how custom widgets work if they differ from standard HTML controls.

## Text Alternatives

Images and icons should have text equivalents for screen reader users using alt attributes or visually hidden text.

Decorative images should be hidden from screen readers.



## About WCAG

The Web Content Accessibility Guidelines are the basis of all web accessibility laws around the world.

While laws may specify a version, it's best to use the most recent version of WCAG.

Level AA compliance is required for public institutions in the US and Canada.

WCAG 3, the next major version, will introduce guidelines for cognitive accessibility.

# Education & Outreach

## CONFERENCE PRESENTATIONS



### 2023 NISO Plus Conference

#### **"A Tiny Library with a Million Volumes."**

*Presenters: Andrea Buntz Neiman and Rogan Hamby*

**Abstract:** We know that a thriving, resource-sharing consortium helps libraries and individuals have access to a broader, more diverse range of perspectives. Open source software lowers barriers to resource access for all library users. With open source resource sharing, even the smallest library can access global resources. This is an opportunity for all of us to learn about how open source resource sharing can make a difference for your library and your community.

[View Slides](#)



### 2023 Missouri Evergreen Users Conference

#### **"Collaborating with Missouri Evergreen: Equinox's Role."**

*Presenters: Galen Charlton and Erica Rohlfs*

**Abstract:** Equinox Open Library Initiative is happy to serve as the hosting and support provider for Missouri Evergreen. During this session, Equinox will provide an overview of the services that we provide to Missouri Evergreen and discuss the various ways that we help support the member libraries. This session is directed at both new and long-standing members of Missouri Evergreen and will include concrete tips and tricks for maximizing your library's use of Equinox's services.

#### **"Client Update: Evergreen Staff Permission Group Project."**

*Presenter: Jennifer Weston*

**Abstract:** Evergreen Permission Groups Demystified! Presentation provides an overview of a consulting project dedicated to analyzing existing Evergreen permission groups and permission assignments for Missouri Evergreen staff accounts.



## 2023 Evergreen International Conference

### **“Assembling the Blocks: Building and Releasing Evergreen.”**

*Presenter: Galen Charlton*

**Abstract:** Learn the process that the release and documentation teams use to handle schema updates, translations, and release notes.

[View Slides](#)

### **“Accessibility in Evergreen.”**

*Presenter: Stephanie Leary*

**Abstract:** There is no one way to make something perfectly accessible; different categories of disabilities require different—and sometimes opposing—solutions. This presentation includes a tour of the different kinds of assistive technologies and devices used by people with various disabilities and discusses how these devices affect the way people interact with web-based applications in general and Evergreen components in particular.

[View Slides](#)

### **“Interest Group—User Interface/User Experience.”**

*Presenter: Stephanie Leary*

**Abstract:** The new Evergreen UI/UX Interest Group is intended for anyone interested in making the Evergreen user experience better. This session emphasizes ways to participate and contribute with varying levels of technical expertise.

[View Slides](#)

### **“Circulating Seeds.”**

*Presenters: Rogan Hamby and Aaron Devries (St. Thomas Public Library)*

**Abstract:** When St. Thomas Library migrated to Evergreen they brought with them a collection of seeds that were seasonally refreshed and circulated. Their legacy system hadn't had a way of easily matching their workflow for these non-traditional kinds of checkouts, but with Evergreen, we implemented new action triggers reactors to easily handle their needs.

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### **“New Features in Evergreen 3.10 and 3.11.”**

*Presenters: Andrea Buntz Neiman and Ruth Frasur (Evergreen Indiana)*

**Abstract:** The Andrea and Ruth Show returns for the latest installment of the New Features update for the past year's Evergreen ILS releases.

[View Slides](#)

### **“Hosting Evergreen in Production.”**

*Presenter: Jason Boyer*

**Abstract:** If you're a system admin or developer you've likely installed Evergreen, maybe even at this very event, but do you know the ins and outs of efficiently hosting a large highly-available OpenSRF cluster? It's not as hard as it may sound; join me as we go beyond the basic installation instructions and turn reliability up to 11.

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## “Authority-Fest Redux.”

*Presenters: Jennifer Weston and Jessica Efron  
(State Library of North Carolina)*

**Abstract:** A summary of Authority-Fest 2022, lessons learned since then, an update from the Authorities Working Group, and more brainstorming.

[View Slides](#)

## “Standing Requirements: The Explicit and Implicit Expectations of Evergreen.”

*Presenter: Galen Charlton*

**Abstract:** During this presentation, Galen Charlton will discuss the full panoply of Evergreen’s standing requirements, including ones that are implicit or obscure. Accessibility, UX design, and internationalization all figure here as well as concerns specific to particular contributor communities within the project.

[View Slides](#)

## “Interest Group—Cataloging.”

*Presenters: Jennifer Weston and J. Elaine Hardy  
(PINES)*

**Abstract:** The Cataloging Interest Group is open to anyone and everyone interested in Evergreen cataloging-related topics.

## “Making Life Easier with NCIP.”

*Presenters: Rogan Hamby, Katie Greenleaf Martin (PaLLS), Elizabeth Davis (PaLLS), and Jason Boyer*

**Abstract:** The Keystone State has long provided wide resource sharing through AccessPA, a system provided by a vendor to facilitate a union catalog. However, within the state Evergreen consortium, they decided to streamline the workflow with NCIP. Join us to learn how the SPARK team and Equinox worked together to deploy a solution using NCIP with Evergreen and make life resource sharing a lot less button-click-y.

[View Slides](#)

## “Hey, What are You Doing Back There? Exposing Some of Evergreen’s More Useful Features through OpenAPI.”

*Presenter: Mike Rylander*

**Abstract:** Evergreen can do all sorts of neat tricks, and while the OpenSRF infrastructure provides programmatic access to its business logic, it can be difficult to use for a variety of reasons. This session will show off a new RESTful OpenAPI interface that solves many of the complexity issues, is useful for third party integrations and local custom development, and how it can be extended very simply to offer access to some of the hidden gems of Evergreen functionality.

[View Slides](#)

## “Slouching towards BIBFRAME: An Overview of Current Possibilities.”

*Presenter: Galen Charlton*

**Abstract:** BIBFRAME is a shapeshifter; it is both the focus of serious testing and production projects by academic and national libraries and a mystery with an unclear path forward to adoption by public libraries... and Evergreen.

This session will provide an overview of recent developments in BIBFRAME tools with a focus on what has evolved towards a practical use of the technology.

[View Slides](#)

## “Achieving Fulfillment.”

*Presenters: Rogan Hamby, Andrea Buntz Neiman, Mike Rylander, and Jessica Woolford  
(Bibliomation)*

**Abstract:** Evergreen has a sibling named Fulfillment, an application made to allow for wide spread and low effort interlibrary loan among libraries. Join us as we discuss the history of its shared code with Evergreen, ongoing development, what makes it special, and learn if it might help you expand sharing with other libraries, regardless of ILS.

[View Slides](#)

## “Developer Update.”

*Presenter: Galen Charlton*

[View Slides](#)

## “Lightning Talks”

- “Evergreen Inventory,” *Presenter: Andrea Buntz Neiman*

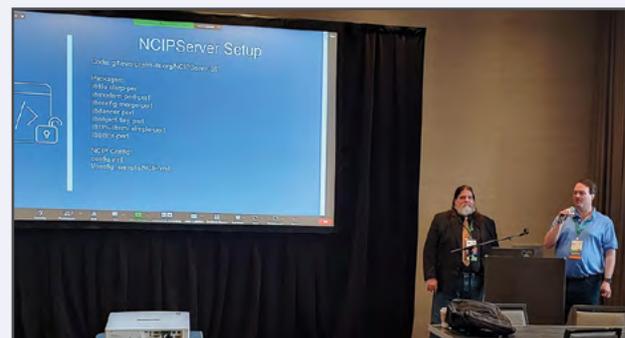
[View Slides](#)

- “On the Proper Use of Pillows in Evergreen,”  
*Presenter: Galen Charlton*

[View Slides](#)

- “Community Onboarding,” *Presenter: Stephanie Leary*

[View Slides](#)





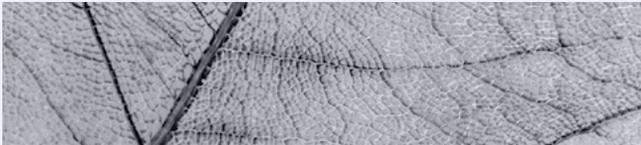
## Connecticut Library Association Conference 2023

### “Resource Sharing with requestIT CT and the Fulfillment Platform.”

*Presenters: Andrea Buntz Neiman, Brad Bullis (Connecticut State Library), and Jennifer Woolford (Bibliomation)*

**Abstract:** If you're a Connecticut Library interested in streamlining your interlibrary loan workflow, come join us for an overview of FindIT CT and RequestIT CT. FindIT and RequestIT are sponsored by the Connecticut State Library and supported by Bibliomation. FindIT serves as a statewide union catalog and RequestIT allows members to seamlessly borrow and lend items from member libraries. Both services use the Fulfillment, interlibrary loan software developed by Equinox Open Library Initiative. Come learn about the benefits of joining RequestIT and see the newest features in Fulfillment—developed with the input of Connecticut librarians!

[View Slides](#)



## 2023 American Library Association Annual Conference

### “Executive Perspectives: A Conversation on the Future of the Library Technology Industry.”

*Moderator: Marshall Breeding (Library Technology Guides); Panelists: Lisa Carlucci (Equinox), Tom Jacobson (Innovative and ExLibris, Clarivate), Sebastian Hammer (Index Data), Constance Malpas (OCLC)*

**Abstract:** Marshall Breeding, author of the annual Library Systems Report published in American Libraries, assembled and moderated a panel of senior executives representing organizations that produce software or services for libraries. This year, the panel discussion will focus on the theme “Multiple Paths to Openness.”

[Learn more](#)

### “Leading Accessibility Initiatives in Open Source Library Software.”

*Presenters: Stephanie Leary, Andrea Buntz Neiman, Lisa Carlucci, and Angela Kilsdonk*

**Abstract:** This poster will present an overview of software design considerations for vision, hearing, mobility, and cognitive accessibility, and present recent accessibility improvements that Equinox has made to the Evergreen integrated library system and VuFind® discovery layer.

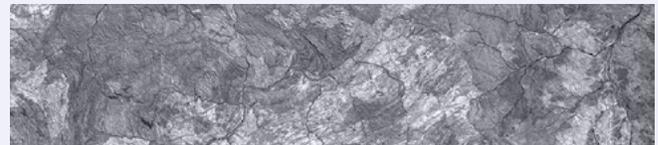
[Learn more](#)

### “Bringing Information Together: Best Practices for Implementing CORAL ERM.”

*Presenters: Erica Rohlfs and Galen Charlton*

**Abstract:** The poster presents best practices and lessons learned by Equinox Open Library Initiative staff during the implementation of the open source electronic resource management system CORAL. The poster will include tips for libraries on planning their own ERMS implementation.

[Learn more](#)

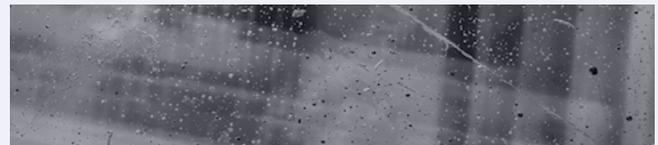


## Evergreen UI Interest Group

### “Finding HTML & CSS Files in Evergreen.”

*Presenter: Stephanie Leary*

[View Slides](#)



## WOLFCon 2023

### “Layers of Accessibility in Open Source.”

*Presenters: Stephanie Leary and Andrea Buntz Neiman*

**Abstract:** In early 2023, Equinox Open Library Initiative produced a fully reworked theme for VuFind®. The theme passes WCAG 2.1 AA standard and is freely available for download from Equinox’s GitHub page. This talk will discuss the development process related to the theme including challenges encountered as well as future suggestions for front-end accessibility practices in VuFind®.

[View Slides](#)

# equinoxEDU

The equinoxEDU program provides open source library communities with a full suite of online education services. EquinoxEDU includes several webinars throughout the year: the free Spotlight webinar series highlights new features and open source products; the fee-based educational Workshops and Tutorials focus on more in-depth topics and provide skillbuilding opportunities; and the online Resource Library offers self-paced learning. The equinoxEDU team and special guests offer educational materials in live event formats, video recordings, and online content to make the resources widely available and accessible. New equinoxEDU announcements, recordings, and materials from past events dating back to the beginning of the program are available in the [equinoxEDU: Events Guide](#), using the open source platform SubjectsPlus.

A highlight of the 2023 equinoxEDU program was the development of the Tutorial webinar series. EquinoxEDU Tutorial events provide a chance for library professionals to take a comprehensive look at a particular component of their open-source software or to follow an Equinox Product and Education Specialist on a deep dive into a particular theme. Three Tutorials were held this year to focus on high demand training topics and provide libraries with ongoing training opportunities. [Sign up for the Equinox mailing list](#) to receive information about upcoming events!

## EVENTS

### February 2023: equinoxEDU: Spotlight on 2023 Evergreen Projects

*Presenter: Andrea Buntz Neiman*

**Abstract:** Provides an overview of new features, accessibility improvements, and revamped interfaces that are on the schedule for Evergreen and Equinox in 2023.

### March 2023: equinoxEDU: Spotlight on Accessibility in Open Source Projects

*Presenter: Stephanie Leary*

**Abstract:** This webinar dives into accessibility considerations for library software. It explores the different kinds of assistive technologies and devices used by people with visual, hearing, mobility, speech, and cognitive disabilities. It also reviews the current state of legislation related to accessible web interfaces and discusses how Equinox's approach to user interface design is changing to accommodate a broader spectrum of specialized needs.

### April 2023: equinoxEDU: Spotlight on Aspen Discovery

*Presenter: Angela Kilsdonk*

**Abstract:** This webinar highlights how this flexible and dynamic open source discovery layer can introduce new ways for library users to interact with library resources. See how libraries new to Aspen Discovery are using discovery tools to promote materials and to improve the library user experience.

### May 2023: equinoxEDU: Spotlight on Aspen Discovery

*Presenter: Angela Kilsdonk*

**Abstract:** This webinar highlights how this flexible and dynamic open source discovery layer can introduce new ways for library users to interact with library resources. See how libraries new to Aspen Discovery are using discovery tools to promote materials and to improve the library user experience.

### July 2023:

#### **equinoxEDU: Spotlight on New Features in Evergreen 3.10 and 3.11**

*Presenters: Ruth Frasur (Evergreen Indiana and Evergreen Community Development Initiative) and Andrea Buntz Neiman*

**Abstract:** This webinar highlights some of the newest features in versions 3.10 and 3.11 of Evergreen.

#### **equinoxEDU: Tutorial on Patron Account Management**

*Presenter: Lena Hernandez*

**Abstract:** This webinar focuses on creating and managing patron accounts in the Evergreen ILS. Topics will include in depth review of the patron registration form and patron account, including configuration options and functionality.

### September 2023: equinoxEDU: Tutorial on the Evergreen Booking Module

*Presenters: Lena Hernandez and Jennifer Weston*

**Abstract:** This webinar covers how to create bookable materials and manage the reservation process in Evergreen.

### November 2023: equinoxEDU: Tutorial on Batch Loading Records in Evergreen

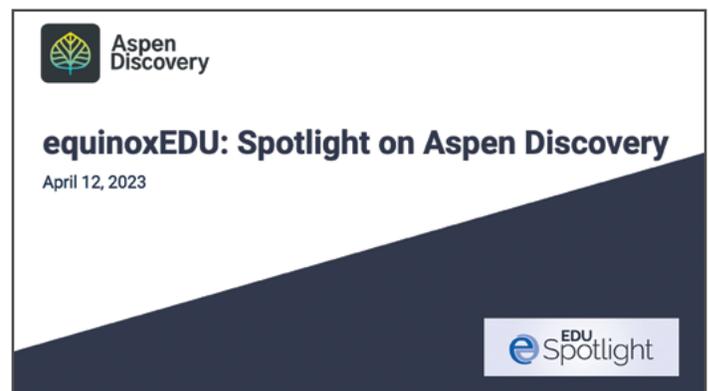
*Presenter: Jennifer Weston*

**Abstract:** This webinar provides a deep dive into the MARC Batch Import tool in Evergreen. Topics will include the configuration of import profiles, such as merge profiles, holdings import profiles, and record match sets. Various workflows are covered, including importing and overlaying bibliographic records, holdings records, and the options for importing and overlaying acquisitions records and items.

### December 2023: equinoxEDU: Spotlight on Aspen Discovery Web Builder

*Presenter: Lena Hernandez*

**Abstract:** This webinar provides an overview about the types of content you can create within Aspen Discovery, including custom web pages to promote library resources, forms to collect feedback and information from the community, and other informational pages, such as a staff directory.



# Development

In 2023, Equinox continued with 2022's major development themes of accessibility and interface framework updates. We also started work in 2023 on several longer term projects to improve security and integration in Evergreen, as well as made contributions to several of our other open source communities.

One of our first projects of the year was a completely new theme for VuFind® that made several accessibility and usability improvements. This theme focused on improving keyboard access; updating page structural elements like headings, landmarks, and tables; and improving link identification and behavior. The VuFind® theme is available for download from our github repository: <https://github.com/EquinoxOpenLibraryInitiative/equinox-theme-vufind>. We also presented on this theme, and accessibility in general, at the 2023 [ALA Annual Conference](#) and the [2023 WOLFCOn Conference](#).

This year also saw additional work updating Evergreen interfaces to the Angular framework. The long term goal of the Evergreen

community is to remove old code related to interfaces in other frameworks, like Dojo and AngularJS, so to that end, we produced several more Angular updates this year. The biggest one of these is Evergreen's Reports interface, which has undergone a complete rewrite. This was one of the oldest interfaces still in regular use in Evergreen, and we're very proud of its updated and streamlined look as well as its major usability and accessibility improvements.

Other Evergreen interfaces seeing Angularization work in 2023 include the Custom Org Unit Trees administrative interface, the Link Checker interface, and further work on Acquisitions interfaces including Invoices, Claims, and MARC Federated Search.

We also completed improvements to the Evergreen staff catalog interfaces, most notably a full, accessibility-driven overhaul of the MARC Editor. We also added a tab to display NoveList added content natively within the staff client, which can be expanded to other content providers with future work.

As mentioned above, we continued working on accessibility improvements for Evergreen — not only rewriting the MARC Editor, but also reviewing and bugfixing accessibility issues in the forthcoming Angular Circulation interfaces. We also continued adding to our public accessibility guide, which serves as an introduction to accessibility issues for Evergreen developers. Our goal here is to give developers the tools to consider accessibility at all steps of the development process. This guide can be found on the Evergreen wiki: <https://wiki.evergreen-ils.org/doku.php?id=accessibility:start>.

Accessibility work also led to some infrastructural improvements in Evergreen. We have been working on making both the tree component and grid components in Evergreen more accessible and user-friendly, and we also provided an upgrade to Angular 15 / Bootstrap 5, which are two frameworks that undergird most of the Evergreen staff interfaces. This upgrade will allow Evergreen

to take advantage of newer elements in these frameworks.

Other "big picture" Evergreen issues we worked on in 2023 are related to security and third party integrations. Working with community partners, we identified the desired first implementations for multi factor authentication, and we produced a specification detailing these steps. Work on this is expected in 2024. We also worked on adding more granular permissions to Evergreen's Reports interfaces and Opt-In tools, allowing administrators to have more location-based control over staff access to patron information.

We produced a specification delineating a new RESTful API suite for Evergreen to facilitate third-party integrations such as discovery layers and patron engagements services, among others. This specification builds on the extant Evergreen APIs and brings them into the modern RESTful framework, providing endpoints for third party developers to hook into Evergreen's data in a manner controlled by system administrators.

Finally, we're proud of the work we've contributed to our other open source products in 2023. In February, we put out release 11 of Fulfillment which included a baseline upgrade (incorporating all changes up to Evergreen 3.10), bugfixes, and a brand-new Koha Connector. The Connector will allow libraries using Koha to have a fuller integration with Fulfillment.

For Aspen Discovery, we made several improvements to the Evergreen ILS integration, including suppressing bibs and items that are hidden from the Evergreen OPAC, fine payment support, password reset support, and other various bugfixes. For CORAL, we produced fixes to update its JQuery framework to a more modern version, providing greater security and stability.

**We are grateful to all of our community partners who worked with us this year delivering such a wide variety of improvements to Evergreen, Aspen Discovery, Fulfillment, Koha, VuFind®, and CORAL.**

## *Thank You to our 2023 Development Partners!*

- » BC Libraries Cooperative
- » Bibliomation Inc.
- » Evergreen Community Development Initiative
- » Evergreen Indiana
- » King County Library System
- » North of Boston Library Exchange (NOBLE)
- » Pennsylvania Integrated Library System (PaILS)

# Development

Development Project	
Fulfillment Baseline Upgrade & 11.0 Release	Equinox Open Library Initiative
Barcode Permissions Fixes	Evergreen Indiana
Parts Bugfix—Renaming (LP1902120)	Evergreen Indiana
Parts Bugfix—Block Title Holds (LP1965446)	Evergreen Indiana
Serials Rewrite Specifications	King County Library System
Reports Security Specifications	BC Libraries Cooperative
Equinox Theme for VuFind®	Equinox Open Library Initiative
Aspen Discovery—Evergreen Driver Improvements	Equinox Open Library Initiative
Metabib Fingerprinting Analysis	Bibliomation
Angular 15 / Bootstrap 5 Update	King County Library System
Revisions to Developer Accessibility Guide	King County Library System
Acquisitions Orders & Z39.50 Specifications	Evergreen Community Development Initiative
Accessibility Bugfixes	King County Library System
RESTful API Investigation & Report	Evergreen Community Development Initiative
CORAL ERM Enhancements	Equinox Open Library Initiative
Angular Link Checker Development	King County Library System



Development Project	
Patron Opt In Specifications	BC Libraries Cooperative
Added Content Tab Development	North of Boston Library Exchange (NOBLE)
X12 EDI Specifications	King County Library System
Custom Org Unit Tree Development	King County Library System
Multi Factor Authentication Investigation	Evergreen Community Development Initiative
Acquisitions: Invoices & Claims Development	Evergreen Community Development Initiative
Angular Reports Development	King County Library System
Angular Record Buckets Specifications	Evergreen Community Development Initiative
Acquisitions: Orders & Z39.50 Development	Evergreen Community Development Initiative
Enhanced MARC Editor Rewrite Development	King County Library System
Eg-tree Rewrite Development	King County Library System
Lassos & Shelving Groups Development	Pennsylvania Integrated Library System
Evergreen Indiana Bugfixes	Evergreen Indiana
Reports Security Development	BC Libraries Cooperative
Angular Circ Review & Bugfixes	King County Library System
RESTful API Suite Specifications	Evergreen Community Development Initiative

# Products



## Evergreen Community Positions:

### Jason Boyer

- » Evergreen Community Developer; Evergreen Core Committer; Evergreen Release Team

### Galen Charlton

- » Evergreen Project Board, Treasurer; Evergreen Cataloging Interest Group; Evergreen Community Developer; Evergreen Core Committer

### Jason Etheridge

- » Evergreen Community Developer; Evergreen Core Committer

### Rogan Hamby

- » Chair of the Evergreen Outreach Committee; Evergreen Project Board, Member; Evergreen Community Developer

### Stephanie Leary

- » Evergreen Community Developer; Founder and Chair of the Evergreen User Interface Interest Group; Evergreen Outreach Committee

### Andrea Buntz Neiman

- » Evergreen Outreach Committee; Evergreen Cataloging Interest Group; Evergreen Documentation Interest Group; Evergreen Documentation Committer

### Mike Rylander

- » Evergreen Community Developer; Evergreen Core Committer

### Jennifer Weston

- » Chair of the Evergreen Cataloging Interest Group; Evergreen Outreach Committee; Evergreen Conference Committee; Evergreen Documentation Interest Group; Evergreen Authorities Working Group

- » Evergreen Release Teams
- » Evergreen Release 3.11 May 2023
- » **3.11 Release Team**
- » Jason Boyer (Equinox)
- » Blake Graham Henderson (MOBIUS)
- » Michele Morgan (NOBLE)
- » **Other Equinox Open Library Initiative 3.11 Contributors**
- » Jason Boyer
- » Galen Charlton
- » Jason Etheridge
- » Rogan Hamby
- » Stephanie Leary
- » Andrea Buntz Neiman
- » Mike Rylander
- » Evergreen Release 3.12, in progress 2023
- » **3.12 Release Team**
- » Andrea Buntz Neiman (Equinox)
- » Jane Sandberg (independent)
- » Michele Morgan (NOBLE)
- » Terran McCanna (PINES)
- » Garry Collum (King County Library System)
- » Ruth Frasur (Evergreen Indiana)
- » **Other Equinox Open Library Initiative 3.12 Contributors**
- » Jason Boyer
- » Galen Charlton
- » Jason Etheridge
- » Rogan Hamby
- » Lena Hernandez
- » Stephanie Leary
- » Mike Rylander



Koha is a full-featured ILS with a dual-database design (separate search engine and RDBMS) built to be compliant with library standards. Koha supports multiple backend search engines for additional flexibility. The OPAC, staff client, and self-checkout interfaces are all web applications. Distributed under the GNU General Public License (GPL), libraries are free to use and install Koha themselves or to purchase support and development services.

[Learn more about Koha](#)



CORAL is an open source electronic resources management system. Its interoperable modules allow libraries to streamline their management of electronic resources. CORAL provides useful tools for both academic and public libraries, including customized acquisitions workflows, license comparison and management, vendor and subscription management, and COUNTER-compliant reporting tools. CORAL is a great addition to your library's open source toolbox to assist staff as they navigate the complexities of electronic resource management.

[Learn more about CORAL](#)

## Highlights

- » Rogan Hamby's guest appearance on The Terrific Every Other Thursday Training Videos from Koha-US: "[Anonymization and Pseudonymization.](#)"
- » [Koha Connector for Fulfillment](#)
- » equinoxEDU: Spotlight on New Features in Koha
- » New Koha Libraries in 2023:
  - [Library Company of Philadelphia](#)
  - [German Society of Pennsylvania](#)
  - [Wagner Free Institute of Science](#)
  - [Pennsylvania Horticultural Society](#)
  - [Rosenbach Museum and Library](#)

## Highlights

- Conference Presentations
- » 2023 American Library Association Annual Conference
    - "Bringing Information Together: Best Practices for Implementing CORAL ERM."
  - » [2023 CORAL Community Meeting—November 8, 2023](#)

# Products



## fulfillment

Fulfillment is an open source interlibrary loan management system which leverages intuitive design and efficient workflows to maximize value and impact for library users. Fulfillment takes interlibrary loan to the next level with powerful analytics — removing the need for manual tracking and amplifying collections management efforts with clear reporting that highlights collections with the most demand. Fulfillment allows community members to have expanded access to resources across their state and outside their consortium.

In 2023, Equinox announced the release of Fulfillment 11. The release introduces a new connector for Koha ILS, bringing Fulfillment's powerful resource sharing automation capabilities to libraries utilizing Koha ILS. The new Koha ILS connector allows for full integration, automation, and real time status updates for Koha libraries who use Fulfillment. Fulfillment 11 also includes new features from Evergreen versions 3.6 to 3.10 including the new Simple Reporter and the 'Did You Mean?' bibliographic based search suggestions.

[Learn more about Fulfillment](#)



## subjectsplus

SubjectsPlus is a user-friendly, open source, content management system. It offers tools for libraries of all types to create subject and research guides, organize curated content, and develop and manage library websites.

Equinox doesn't just support SubjectsPlus, we use it as well. Our Education Team uses SubjectsPlus to highlight [equinoxEDU events](#), disseminate training materials to our staff, and deliver training materials to migrating libraries.

[Learn more about SubjectsPlus](#)

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## Highlights

- » [Fulfillment 11 with Koha ILS Connector](#)
- » Conference Presentations
  - [2023 NISO Plus Conference](#)
    - "A Tiny Library with a Million Volumes."
  - 2023 Evergreen International Conference
    - ["Achieving Fulfillment."](#)
  - 2023 Connecticut Library Association Conference
    - "Resource Sharing with requestIT CT and the Fulfillment Platform."



VuFind® is an open source library discovery interface that allows libraries to replace their traditional OPACs with a system that provides access to all library resources, including catalog records, local journals, digital library items, and institutional repositories.

In 2023, Equinox developed an accessible theme for VuFind® that meets WCAG 2.1 Level AA compliance. The VuFind® theme from Equinox provides a clean and modern design for intuitive and accessible searching. Interactive controls have been refined for interoperability with assistive technologies. The theme is easily customizable for branding and designed to take maximum advantage of future development by the VuFind® community.

[Learn more about VuFind®](#)

### Highlights

- » [Accessible VuFind® Theme Meeting WCAG 2.1 Level AA compliance](#)
- » Conference Presentations
  - 2023 American Library Association Annual Conference
    - "Leading Accessibility Initiatives in Open Source Library Software."
  - [WOLFcon 2023](#)
    - "Layers of Accessibility in Open Source."



Aspen Discovery is a fully-featured, open source discovery system, which provides comprehensive access to your library's resources. It gives patrons a single search box and smart search results that group all formats of a title together, allowing the patron to easily get access to their preferred version.

Aspen Discovery integrates with your ILS and with a wide range of econtent providers including Library Market, OverDrive, Hoopla, and cloudLibrary. It also can pull in enriched content from a variety of sources such as Novelist and Syndetics.

[Learn more about Aspen Discovery](#)

### Highlights

- » New Aspen Discovery Libraries in 2023:
  - OWWL Library System
  - Traverse de Sioux Library Cooperative
  - Skagit Evergreen Libraries
  - Consortium of Ohio Libraries (COOL)
  - Lake Agassiz Regional Library and Northwest Regional Library

# Bringing Information Together

## Best Practices for Implementing CORAL

### Information Gathering

Identify where the institutional knowledge of your resource data, licensing, and configuration documents lives:

- Colleagues Brains
- Emails
- Shared Drives
- Legacy ERM
- PDFs
- Spreadsheets
- Vertical Files (paper invoices)

### Project Planning

Evaluate the type of resource data:

- Starting with new data (not migrating historical data)
- Migrating data from a legacy ERM or spreadsheet
- Combining legacy ERM data with new, additional resource information, not previously centralized

### Determine the Scope

#### Resources

- Acquisitions / Cost history
- Contact information
- Statuses

#### Organizations

- Account access and contact information
- Acronyms and aliases
- Associated with a parent organization
- Types
- License Agreements
  - Electronic agreements
  - Scanning print agreements
- Policies and Procedures
  - Uploading current policies / procedures
  - Building policies / procedures

#### Outcome Specifications

- Beyond a centralized data repository:
  - Automation of workflows and notifications
  - Harvesting usage statistics
- Define governance framework and access management:
  - Librarian roles and responsibilities
  - Module access (no access, view only, editing permissions)
- Establish a taxonomy and/or naming convention, including data cleanup prior to import:
  - Eliminate the duplication of Organizations, such as Alexander Street Press and Alexander Street Press, LLC
- Specify where potentially redundant information will be stored:
  - Use of Resource module to house contact information vs the Organization module

**About Equinox Open Library Initiative:** a trusted global service provider of open source library technologies. Equinox provides a full suite of open source services, including consulting, hosting, support, training, and development for Evergreen ILS, Koha ILS, VuFind, Aspen Discovery, Fulfillment ILL, CORAL ERM, and SubjectsPlus. Founded in 2006 as Equinox Software, Inc., Equinox became a 501(c)(3) non-profit organization in 2017 with a mission to support libraries, archives, museums, and consortia with innovative open source technologies, and to promote and support open source library technology communities. Equinox provides project management, data management, migration and implementation services for libraries of all sizes and types.



Equinox is committed to providing an open source electronic resources solution to support libraries with managing ERM data, institutional knowledge, licensing, and other information.

Equinox actively supports CORAL and the CORAL Community. Equinox's team members serve on the CORAL Steering Committee, lead development projects, propose new features and updates based on customer feedback, and are available to provide training resources as needed.

**About CORAL:** open-source software, providing libraries with a cost-effective and customizable ERM solution.

**CORAL Modules:** CORAL is composed of five modules:

- The **Resources** module can be utilized to centralize, search, and maintain electronic resources. It tracks cataloging information, access details, cost history, and more.
- Within the **Organizations** module, you can maintain contact and account information for vendors, along with log information that may be valuable for an organization's invoicing.
- The **Licensing** module provides a central location for copies of license agreements.
- The **Usage Statistics** module allows you to harvest data from vendors. It also allows you to review outlier usage.
- The **Management** module handles the administrative side of electronic resources.

**ERM:** Electronic Resource Management. It is used to track and retain the centralized information, including license agreements, vendor details, and more.

### Data Cleanup and Load Sequencing

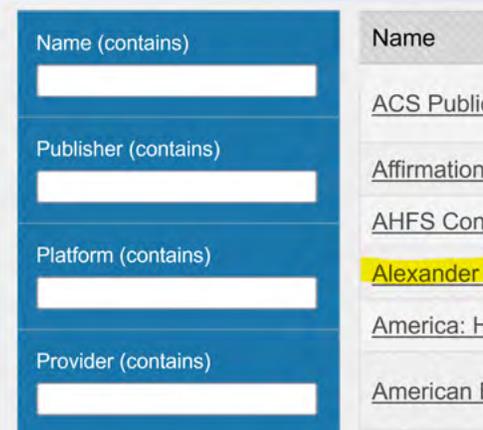
- We learned these lessons from an implementation for a small four-year academic library
- Data was taken from a variety of spreadsheets and an export from Springshare
- There was overlap between the various sources
  - A key lesson: When you combine data from different sources, give them a common data structure and dedupe them, then you can really map and load.

- The database structure in CORAL is split across multiple separate MySQL databases. We learned that synchronizing record IDs between those databases was really helpful
- Load Resources first, then build everything else off that
- Some data points like cost history may require you creating fake values to substitute for unknown or incomplete data. For example, we need to mock up purchase order numbers.

### Lessons Learned

Factors of migrating data that influence the implementation approach:

- Data normalization: Naming and spelling consistency across multiple files
- Logical data imports and implementation workflow efficiencies: If importing Resources associated with Organizations, then build and load the Organization module first.
- Scope of incoming data: If the librarians initially enter basic data (ex. name and description) and later decide to add more detailed values (ex. cost history, URL, ISSN), then staff will need to manually go back through each resource to update information. Such additional information could be mapped and scripted during the implementation project.



# ther: L ERM



**coralerm**

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d also supports automations.  
ule, users store and manage the contact  
endors, publishers, and consortia. Users can  
aluable over time, such as name changes,  
g process.  
es users a way to store and access digital  
within a centralized location.  
allows for manual and automated usage  
o provides users with a mechanism to define  
uses policies and procedures related to your  
  
agement offers libraries a way to capture  
formation of electronic resources' license  
nd usage statistics.

rganizations and roles need to be considered  
gether.  
ORAL is best suited for electronic resources:  
on't try to force it to handle print

<a href="#">ications</a>
<a href="#">&amp; Critique</a>
<a href="#">Consumer Medication Information</a>
<a href="#">Street Academic Video Online</a>
<a href="#">History &amp; Life with Full Text</a>
<a href="#">Enterprise Institute Policy Papers</a>

# Implementation

Equinox completed numerous migrations and implementations in 2023. Equinox's growth in Aspen Discovery is strong, with accomplishments including a simultaneous implementation of Evergreen and Aspen Discovery for the Traverse de Sioux Library Cooperative, the implementation of Aspen Discovery for the OWWL consortium in New York, and the COOL consortium in Ohio. Equinox has also started Aspen implementations for Evergreen Indiana and Lake Agassiz Regional Library/Northwest Regional Library that will go live in the spring of 2024.

Equinox's track record of helping Evergreen consortia grow was marked by the go-lives of five additional members in Missouri Evergreen and the commencement of a project to add a county system to SPARK in Pennsylvania.

A specialty of Equinox is helping our consortial customers maximize their use of open source software to enhance their operations. In 2023, we completed consulting projects to help three consortia improve resource-sharing performance, manage staff permissions more effectively, and improve the quality of their metadata.

Equinox is also proud to serve special libraries and archives. We are pleased to welcome five members of PACSCL, the Philadelphia Area Consortium of Special Collections Libraries to our Koha hosting service. Equinox has also commenced a project to assist the Historical Society of Pennsylvania with various technology projects, including updates and modernization of two VuFind® systems.

**9**

Evergreen Migrations

**101**

Aspen Discovery Libraries

**6**

Koha Migrations

**21**

Total Number of Migrations

Total Number of Item Records Migrated  
**1,941,428**

Total Number of Bibliographic Records Migrated  
**1,348,560**

Total Number of Patron Records Migrated  
**202,436**

**53**

Evergreen Library  
Branches  
Going Live

**7**

Koha Library  
Branches  
Going Live

**60**

Total Library  
Branches  
Going Live

Number of Consortial  
Add-On Projects

**8**

Number of Distinct  
Source Legacy ILSs

**8**

Policy Consultations

**1**

Number of  
Standalone  
Migrations

**7**

Data Services Projects

**3**

# Presentations

- Boyer, Jason. "Hosting Evergreen for Production." Evergreen International Conference 2023, 27 April 2023. Worcester, MA. Presentation.
- Boyer, Jason et al. "Making Life Easier with NCIP." Evergreen International Conference 2023, 28 April 2023. Worcester, MA. Presentation.
- Carlucci, Lisa, et al. "Executive Perspectives: A Conversation on the Future of the Library Technology Industry." American Library Association Annual Conference, 24 June 2023. Chicago, Illinois. Presentation.
- Carlucci, Lisa, et al. "Leading Accessibility Initiatives in Open Source Library Software." American Library Association Annual Conference, 25 June 2023. Chicago, Illinois. Presentation.
- Charlton, Galen. "Assembling the Blocks: Building and Releasing Evergreen." Evergreen International Conference 2023, 26 April 2023. Worcester, MA. Presentation.
- Charlton, Galen. "Development Update." Evergreen International Conference 2023, 29 April 2023. Worcester, MA. Presentation.
- Charlton, Galen. "On the Proper Use of Pillows in Evergreen." Evergreen International Conference 2023, 28 April 2023. Worcester, MA. Presentation.
- Charlton, Galen. "Slouching towards BIBFRAME: An Overview of the Possibilities." Evergreen International Conference 2023, 28 April 2023. Worcester, MA. Presentation.
- Charlton, Galen. "Standing Requirements: The Explicit and Implicit Expectations of Evergreen." Evergreen International Conference 2023, 27 April 2023. Worcester, MA. Presentation.
- Charlton, Galen and Erica Rohlfs. "Bringing Information Together: Best Practices for Implementing CORAL ERM." American Library Association Annual Conference, 25 June 2023. Chicago, Illinois. Presentation.
- Hamby, Rogan. "Making Life Easier With NCIP." Evergreen International Conference 2023, 28 April 2023. Worcester, MA. Presentation.
- Hamby, Rogan. "Anonymization and Pseudonymization." The Terrific Every-Other-Thursdays Training Videos, Season 3, Episode 20, 8 June 2023. <https://youtu.be/cV-HAiGfIOE>
- Hamby, Rogan and Andrea Buntz Neiman. "A Tiny Library with a Million Volumes." NISO Plus 2023, 14 February 2023. Online. Presentation.
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- Hernandez, Lena. "equinoxEDU: Spotlight on Aspen Discovery Web Builder." equinoxEDU, 14 December 2023, Online. Presentation.
- Hernandez, Lena. "equinoxEDU: Tutorial on the Evergreen Booking Module." equinoxEDU, 20 September 2023, Online. Presentation.
- Hernandez, Lena. "equinoxEDU: Tutorial on Patron Account Management in Evergreen." equinoxEDU, 27 July 2023, Online. Presentation.
- Kilsdonk, Angela. "equinoxEDU: Spotlight on Aspen Discovery." equinoxEDU, 12 April 2023, Online. Presentation. <https://vimeo.com/817013059>
- Leary, Stephanie. "Accessibility & Evergreen." Evergreen International Conference 2023, 26 April 2023. Worcester, MA. Presentation.

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Leary, Stephanie. "equinoxEDU: Spotlight on Accessibility." equinoxEDU, 30 March 2023, Online. Presentation. <https://vimeo.com/816437459>

Leary, Stephanie. "Finding HTML & CSS Files in Evergreen." Evergreen UI Interest Group, August 2023, Online. Presentation.

Leary, Stephanie. "User Interface/User Experience Interest Group." Evergreen International Conference 2023, 27 April 2023. Worcester, MA. Presentation.

Leary, Stephanie and Andrea Buntz Neiman. "Layers of Accessibility in Open Source." WOLFCon 2023, 23 August 2023, Online. Presentation.

Neiman, Andrea Buntz. "equinoxEDU Spotlight: Back to the Future of Development." equinoxEDU, 16 February 2023, Online. Presentation. <https://vimeo.com/800581267>

Neiman, Andrea Buntz, et al. "Achieving Fulfillment." Evergreen International Conference 2023, 28 April 2023. Worcester, MA. Presentation. <https://www.youtube.com/watch?v=x5PRCUX8M-E>

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Neiman, Andrea Buntz, et al. "Resource Sharing with requestIT CT and the Fulfillment Platform." Connecticut Library Association 2023 Annual Conference, 02 May 2023. Groton, CT. Presentation.

Rylander, Mike. "Hey, What are you Doing Back There? Exposing Some of Evergreen's Most Useful Features through Open API." Evergreen International Conference 2023. 28 April 2023. Worcester, MA. Presentation.

Weston, Jennifer. "equinoxEDU: Tutorial on Batch Loading Records in Evergreen." equinoxEDU, 16 November 2023, Online. Presentation.

Weston, Jennifer and Jessica Efron. "Authority-Fest Redux." Evergreen International Conference 2023. 27 April 2023. Worcester, MA. Presentation.

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