

# SWAN Technology Users Group



September 24, 2020

# Meeting Agenda

- Uptime Report
- New Hardware Recommendations
- Project Updates
  - SWAN Securities Initiative
- OHM Development
- Tips on Managing Technical Projects
- Discussion
  - IT & COVID-19
  - PC Reservation Authentication
  - Security in Your Library
- Open Forum

## Enterprise OPAC SaaS Server Downtime Tracking: April 1<sup>st</sup> through September 18<sup>th</sup>

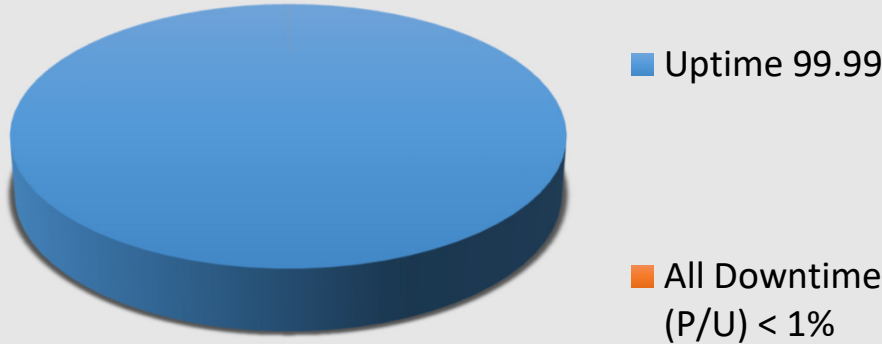
Date	Approx Time	Time Elapsed (Min)	System	Planned?	Library Hours?	Reason
4/7/2020	17:05	5	Enterprise	No	Yes	Enterprise service outage and restart
4/7/2020	19:07	13	Enterprise	No	Yes	Enterprise service outage and restart
4/11/2020	9:15	75	Enterprise	No	Yes	Web Services outage due to Symphony server outage
4/20/2020	23:45	510	Enterprise	No	No	Web Services outage due to Tomcat service restart
5/11/2020	23:45	480	Enterprise	No	No	Web Services outage due to Tomcat service restart
5/19/2020	23:45	300	Enterprise	No	No	Web Services outage due to Tomcat service restart
5/26/2020	3:00	60	Enterprise	Yes	No	Planned Enterprise SaaS maintenance
6/30/2020	3:00	60	Enterprise	Yes	No	Planned Enterprise SaaS maintenance
7/5/2020	20:07	70	Enterprise	No	No	Enterprise SaaS server outage and services restart

## WorkFlows/Symphony Server Downtime Tracking: April 1<sup>st</sup> through September 18<sup>th</sup>

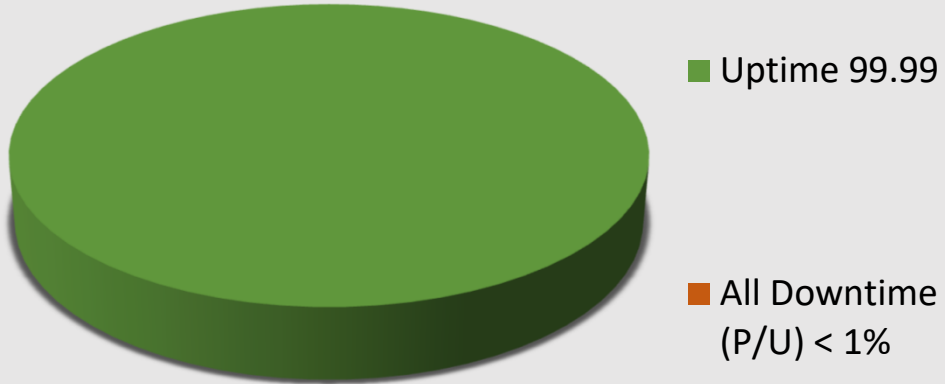
Date	Approx Time	Time Elapsed (Min)	System	Planned?	Library Hours?	Reason
4/11/2020	9:15	75	Symphony	No	Yes	Database log size exceeded allocated storage requiring correction
7/8/2020	8:53	5	Symphony	Yes	Yes	WorkFlows/Symphony restart to correct circ map error
7/17/2020	21:05	5	Symphony	Yes	No	WorkFlows/Symphony server planned patching

# Downtime Tracking: Apr 1<sup>st</sup> through Sept 18<sup>th</sup>

**Enterprise OPAC Server**



**WorkFlows / Symphony Server**





# System Upgrades and Maintenance

---

- Web Services 6.0.3 Upgrade (October 2020, tentative)
  - Requires overnight downtime of core Enterprise functions
- Database Rebuild for SWAN100 (December 5/6)
  - Requires Symphony downtime and use of Offline
- Symphony 3.7.1 (February 2021, tentative)
  - Requires overnight downtime of Symphony server
- Enterprise 5.0.2 Upgrade*

# New Hardware Recommendations



- Restick/Delivery Label Printer
  - Epson TM-T88IV is no longer sold
  - [Epson TM-L90 Plus, Liner-free Compatible Label Printer \(Model C31C412A7991\)](#)



- Patron Card Printer\*
  - [Fargo DTC1250e Card Printer \(color\)](#) - \$2,204 via Barcodes Inc
  - [Fargo 53200 Card Printer \(black and white\)](#) - \$1,599 via Barcodes Inc

# Current SWAN/IT Project Updates

- SWAN 100
  - The addition of Glenside, Roselle, and Warrenville libraries to SWAN's membership.
- Aspen Discovery
  - The investigation of the Aspen OPAC as a potential alternative to Enterprise.
- Staff Equipment Refresh (internal)
  - The 4-year hardware cycle of SWAN staff workstations
- Securities Initiative / Disaster Recovery
  - The investigation and implementation of security/disaster recovery protocols to ensure the integrity of SWAN systems and networks.
- OHM Development (OCLC Holdings Manager)
  - The in-house development to replace TMQ's OSMOSIS for maintaining the consortium's OCLC holdings



# Upcoming SWAN/IT Projects for 2021

- SonicWall EOL (End of Life) Upgrades
  - Coordination of the replacement of out-of-support SonicWall firewalls under SWAN maintenance.
  - Does not affect Self-Maintainer libraries.
  - Projected Q2/Q3 2021
- SVA (SirsiDynix Voice Automation) Notice System Replacement
  - Migration to an alternate service to handle phone notices.
  - Projected Q2, 2021
- Annual Patron Database Cleanup, NCOA (National Change of Address)
  - Annual cleanup of expired and inactive patron records.
  - Projected Q2, 2021
- Support, Ticketing, and Membership Email Server Migrations
  - Currently shared with RAILS, these systems will be migrated exclusively to SWAN servers.
  - Projected Q1 2021
- Directory Services
  - Investigation of an integrated directory services utility to handle future BLUEcloud and WorkFlows integration.
  - Projected Q4 2021

# SWAN Securities Initiative

## Identifying and evaluating security/privacy vulnerabilities

- Within our libraries
- Within the ILS
- Internal to SWAN
- Interfacing with 3rd party vendors

## Advocating security and privacy within our libraries

- Use a PIN on self-checkout
- Limit handling and storing of patron data
- Protect personally identifiable information
- For more examples, watch the SWANx Web Series – [Security & Patron Privacy Tips](#)

## Advocating security and privacy with our vendors

- Ensuring 3<sup>rd</sup> parties are transmitting data and authenticating in a secure manner, following current standards and acceptable protocols

## Ensuring our development follows industry standards

- Use of SSL certificates to ensure proper form encryption
- Reducing the "hops" of PII (Personally Identifiable Information)
- Encrypting transmission of this data

# Example: Online Patron Registration

1. SSL encrypted sites ensure patron data is securely entered and transmitted

2. Age verification for Children's Online Privacy Protection Rule (COPPA) compliance

3. Privacy policy for further web compliance

The screenshot shows a web browser window titled "Patron Registration - SWAN Librar...". The URL is "swanlibraries.net/patron-registration-form/...". The page features the SWAN Libraries logo and the heading "Register for a Library Card". Below the heading, there is a paragraph of text: "Sign up for a digital card to access all of our online resources including eBooks, eAudiobooks, online databases, homework help, and more. You must be at least 13 years of age to register." A callout labeled "1" points to the browser's address bar. A callout labeled "2" points to an age verification question: "Are you over 13 years of age?" with "YES" and "NO" buttons. Below this, there is a paragraph of text: "By registering for a card, you agree to all the terms and conditions." A callout labeled "3" points to two links: "Review the SWAN Patron Privacy Policy" and "Learn more about getting a digital card".

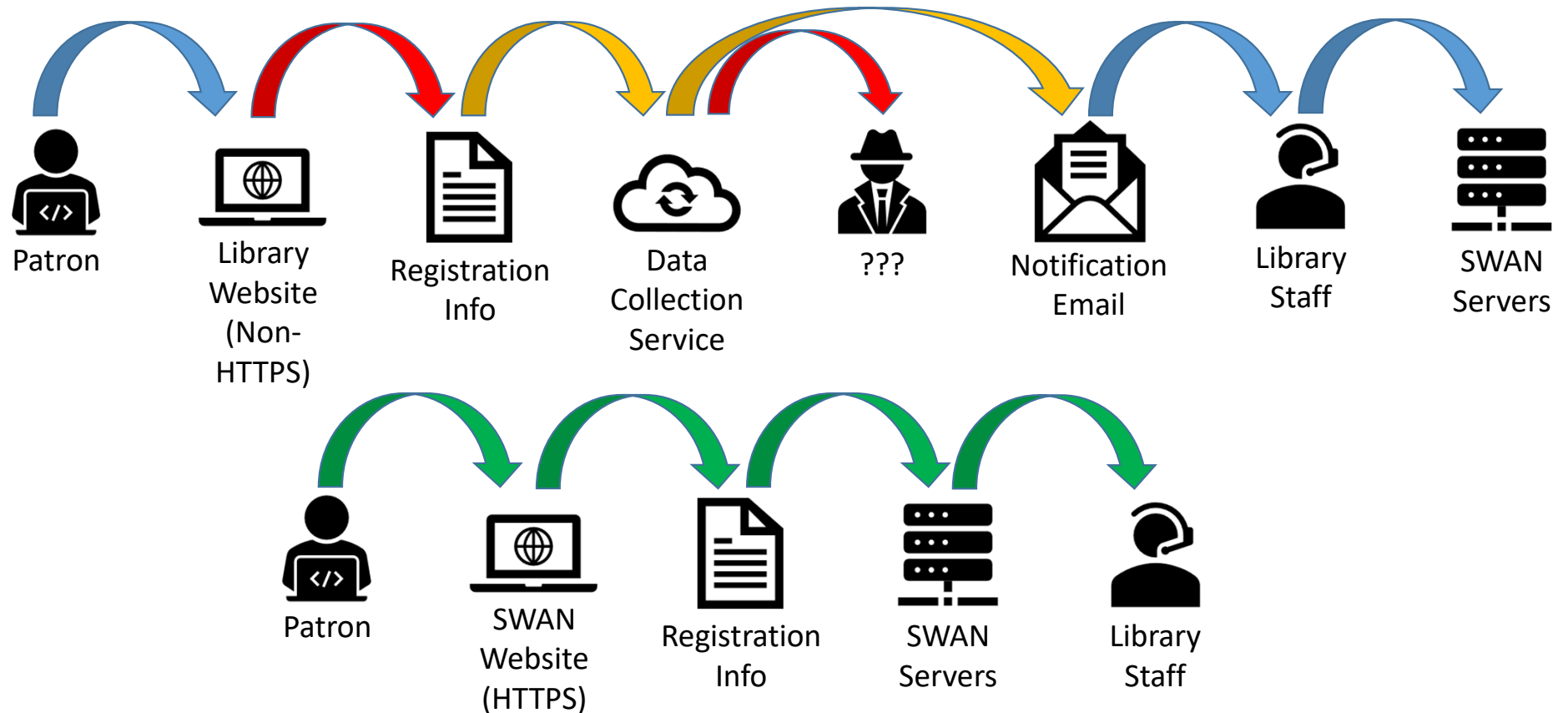
4. Duplicate patron checking, based on name and birth date

5. Birth date does not permit underaged user entry, following COPPA

6. Submission transmits directly to Symphony server, avoiding mishandling of data

The screenshot shows a "Library Card Registration" form. It includes a "NEED HELP?" link with the text "Learn more about getting a digital library card." The form fields are: "First Name:" (with "Patron" entered), "Last Name:" (with "SWAN" entered), "Street:" (with "123 Fake Street" entered), "Apt/Unit:" (with "Apt 3E" entered), "City:" (with "Wood Dale" entered), "State:" (with "IL" entered), "Zip Code:" (with "60191" entered), "Birthday:" (with "12-01-1999" entered), "Phone Number:" (with "555-555-5555" entered), and "Email Address:" (with "patron@noemail.gov" entered). A "SUBMIT" button is at the bottom. Callouts 4, 5, and 6 point to the First Name, Birthday, and Email Address fields, respectively.

# Reducing the Hops



# SWAN Securities Initiative

- Associated Projects:
  - Sunsetting of external SIP2 connectivity by end of 2021, transition vendors to:
    - TLS-wrapped SIP2 OR
    - Web Services OR
    - OpenAthens
  - Exploration of TLS-wrapped (encrypted) internal WorkFlows and SIP2 connections
  - SonicWall End of Life (EOL) hardware upgrades for SWAN-managed libraries
    - Prices range from \$500 (smaller installations) to \$2,000 (high-end installations)
    - We will reach out to affected libraries directly to plan/budget

## These vendors have already made the switch!

- Demco
- Kanopy
- CenTec
- Midwest Tape
- Plymouth Rocket
- Patron Point
- MeeScan (TLS-SIP2)
- Library Market (TLS-SIP2)

# Disaster Recovery / ILS Platform Reliability

- Associated Projects:
  - Scheduled Disaster Recovery tests
  - Review of security/data breach plan
  - Scheduling of Annual Rebuild
    - Completed February 23<sup>rd</sup>
    - Additional rebuild for SWAN100 in December (more info coming soon!)
  - Audit/Review of Symphony and User Access policies
  - Annual/monthly record purging and cleanup

# OHM (OCLC Holdings Manager)

- (Soon to be) Open-source project for importing MARC21 data and calculating changes to update OCLC WorldCat holdings
- In use by SWAN and other Illinois consortia

# OHM - Determining Requirements



CORE FUNCTIONALITY

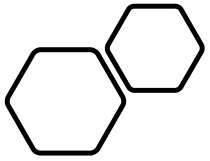


PRODUCTION ENVIRONMENT  
CONSTRAINTS



PROGRAMMING LANGUAGE  
CONSIDERATIONS





# OHM - Prototyping



# OHM – Expanded Testing

1

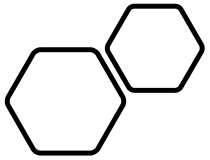
Design a  
configuration model

2

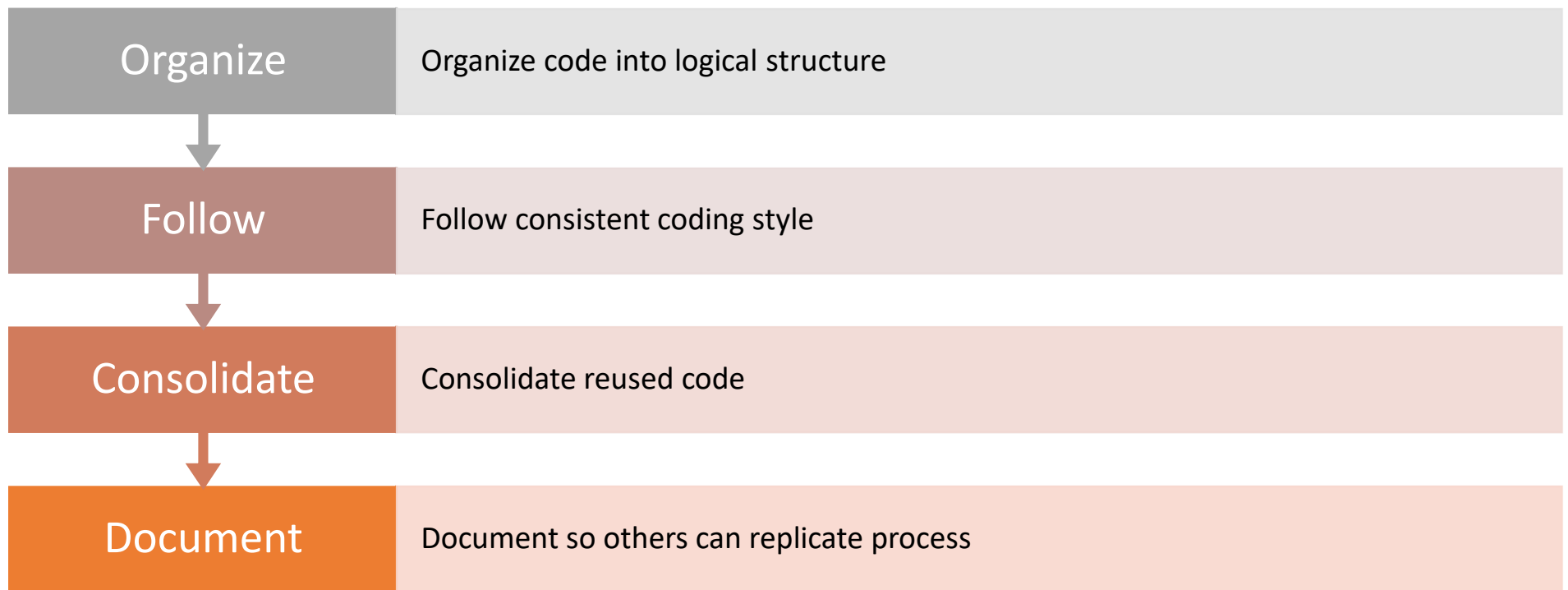
Modify code to  
reflect model

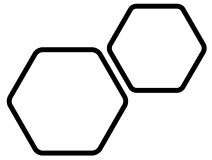
3

Bring in other  
consortia data



# OHM – Code Cleanup and Documentation





## OHM – Publishing Code



ENSURE PROPERLY  
LICENSED



PREVENT LEAKING  
SENSITIVE DATA



## Tips on Managing Technical Projects

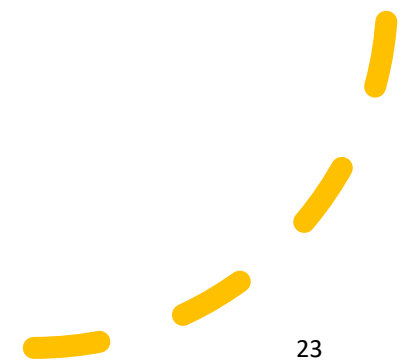
- The Scrum framework
  - Product (or Project) Backlog
  - Sprint Planning
  - Sprint Backlog (“To Do”)
  - Sprint (“Working On It”)
  - Output/Completed Iteration (“Done”)
  - Sprint Review/Retrospective
- Iterative implementation
  - Plan, Build, Test, Review

# Tips on Managing Technical Projects

- In practice:
  - Serves to create “stakes in the ground”
  - Divides the project into bite-sized pieces
  - Defined Sprint sessions help to guide work estimates
  - Continuous feedback throughout guides schedule and workflow

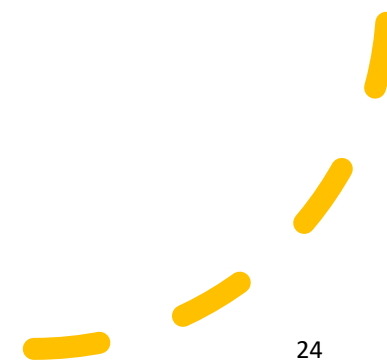
Discussion  
Topic:  
Library  
Reopening

- How has your IT workflow changed as a result of COVID-19?
  - Are your staff continuing to work remotely?
  - Are you managing more workstations using automations and remote tools?



Discussion  
Topic:  
Library  
Reopening

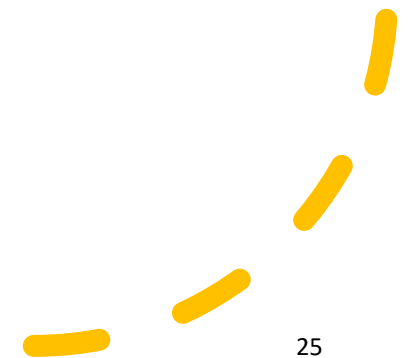
- How have your services for patrons changed as a result of COVID?





Discussion  
Topic:  
Library  
Reopening

- Has COVID afforded your department other project opportunities?



## Discussion Topic: PC Reservation Authentication



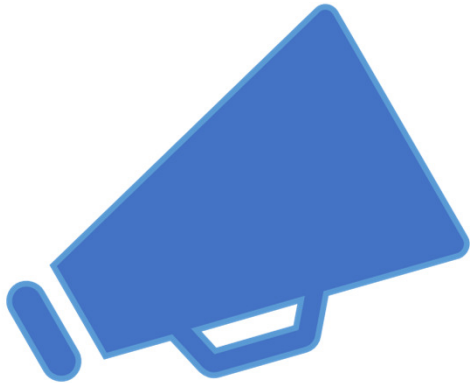
- Is your library using User Category 4 (Internet Y/N) in conjunction with birthdate for PC Reservation/MyPC?
- What other data does your library track via User Category 4?

## Open Forum: Security in Your Library



- Has your library moved forward on any projects to further secure your network?

## Open Forum



- Future RFID implementations?
- New installations of Self-Checkout or AMH?
- System upgrades?



# Upcoming SWAN Technology Events

- [SWAN RFID Users Group](#)
  - Thursday, October 22<sup>nd</sup>, 10AM – 12PM
  - Online via GoToMeeting
  
- SWAN Technology Users Group
  - Thursday, March 25<sup>th</sup> 2021
  - Location TBD

# How to Contact Us



- SWAN Support
  - Email: [help@swanlibraries.net](mailto:help@swanlibraries.net)
  - Phone: 844-SWANLIB (ext. 0)
- Steven Schlewitt, IT & Systems Support Manager
  - Email: [steven@swanlibraries.net](mailto:steven@swanlibraries.net)
  - Phone: 630.326.5993
- Ian Nosek, Systems Administrator
  - Email: [ian@swanlibraries.net](mailto:ian@swanlibraries.net)
  - Phone: 630.326.5887
- Rudy Host, Systems Engineer
  - Email: [rudy@swanlibraries.net](mailto:rudy@swanlibraries.net)
  - Phone: 630.326.5775
- Michael Szarmach, Systems Administrator
  - Email: [michael@swanlibraries.net](mailto:michael@swanlibraries.net)
  - Phone: 630.326.8929
- Vickie Totton, Systems & Support Consultant
  - Email: [vickie@swanlibraries.net](mailto:vickie@swanlibraries.net)
  - Phone: 630.326.8714
- Dave Pacin, Systems Administrator
  - Email: [dave@swanlibraries.net](mailto:dave@swanlibraries.net)
  - Phone: 630.326.8360

# Questions & Follow-up

Send questions to our online ticketing system at [help@swanlibraries.net](mailto:help@swanlibraries.net)

Visit the SWAN Support Site for access to recorded sessions.  
<https://support.swanlibraries.net>

Submit a request for additional training topics.  
Help > Request Forms > Request Training or Consultation

Check the [SWAN training calendar](#) for upcoming trainings. If you don't see what you're looking for, request a training or an onsite consultation for an in depth review of your library's work processes.

**Name \***

**Email address**

**Library**

**I'd like to request ... \***

Training  
 Consultation

**Training details**  
Describe what you topics you would like to learn about.



**SWAN**  
LIBRARY SERVICES  
EST. 1974

SUPPORT.SWANLIBRARIES.NET • (844)SWAN-LIB • HELP@SWANLIBRARIES.NET