FOLIO Linked Data

Team Citation
**Entity Management
Working Group Update**
9 May 2023
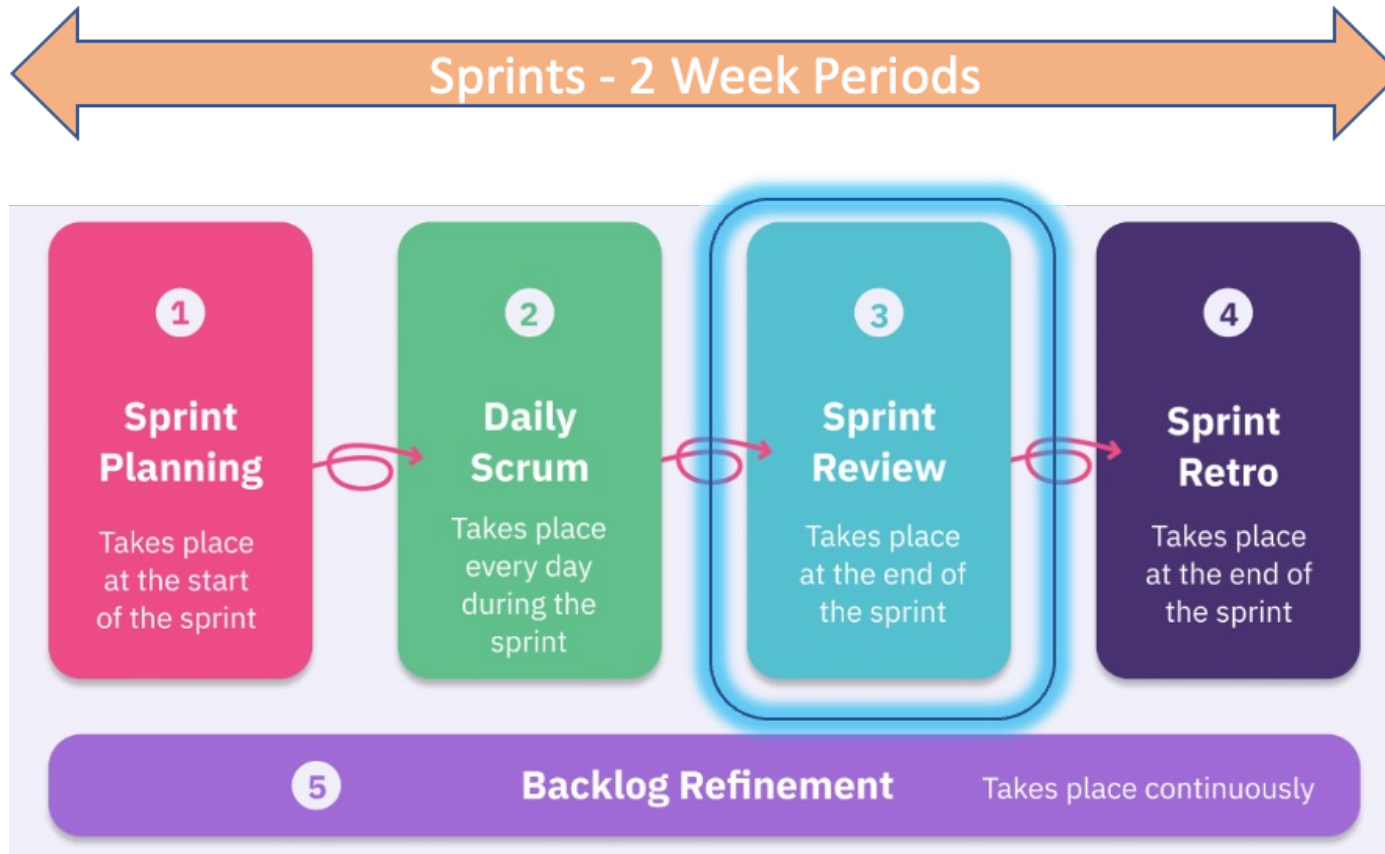
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Cessna **Citation** CJ4

TEAM CITATION

NAME	ROLE	EBSCO	EPAM
Gloria **Gonzalez**	Senior Product Manager	X	
Doug **Loynes**	Senior Product Owner	X	
Anuar **Nurmakanov**	Solution Architect / *Interim Technical Team Lead*		X
Vince **Bareau**	Strategic Architect	X	
Pavel **Bobylev**	Back-end developer		X
Victor **Bodrov**	Back-end developer		X
Nikolai **Litvinenko**	Front-end developer		X
Daniil **Patckin**	Front-end developer		X
Vitalii **Ustalu**	DevOps Support (Kitfox)		X
Giorgi **Ninua**	Scrum Master (splitting time with Team Corsair)		X
Lee **Braginsky**	Development Manager	X	
Ryan **Lee**	Technical SME and Consultant	X	
Eric **Miller**	BIBFRAME / Linked Data SME and Strategic Advisor	X	
TBD	Technical Team Lead	X	
TBD	QA Tester		X

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Team Ceremonies and Processes

Sprints - 2 Week Periods

1 Sprint Planning — Takes place at the start of the sprint

2 Daily Scrum — Takes place every day during the sprint

3 Sprint Review — Takes place at the end of the sprint

4 Sprint Retro — Takes place at the end of the sprint

5 Backlog Refinement — Takes place continuously

Sprint 1: May 1 - May 12, 2023
Sprint 2: May 15 - May 26, 2023
Sprint 3: May 29 - June 9, 2023
Sprint 4: June 12 - June 23, 2023
Sprint 5: June 26 - July 7, 2023
Sprint 6: July 10 - July 21, 2023
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Team Citation Board

Jira Board – Available to Community

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Our plan

EPICS

BIBFRAME TRANSFORMATION	BIBFRAME EDITING	BIBFRAME SHARING	BIBFRAME REPORTING

Transforming
Into / Out of linked data

- Bib data
- Authority data
- Administrative data

- APIs
- Syndication
- Interoperability

- Tracing
- Tracking
- Measuring
- Evaluating . . .

WHAT   COVERS   VALUE

PRE-RELEASE		
Data.Graph Architecture	• Data.Graph environment	• Optimized data model that creates structured data that is interoperable, standardized, flexible, and covers all data elements and relationships that are relevant to libraries • Make BIBFRAME via transformation from MARC • Scalable back-end storage for Marva • Graphs accessible via internal data viewer
NOV 2023 / QUESNELIA		
BIBFRAME Editing	• Integrate MARVA • Update MARVA	• Full editing workflows across basic formats • Ability to enable authority and administrative editing • User account management
BIBFRAME Transformation	• MARC → BIBFRAME • BIBFRAME → MARC	• LC's bib and authority data transformed from MARC to BIBFRAME
BIBFRAME Sharing	• Data Import	• Linked Data Import into Inventory, using APIs to send data into the system, simplifies and automates the process of importing data from Data.Graph Storage

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WHAT   COVERS   VALUE

MAR 2024 / RANSOMS		
BIBFRAME Editing	• Batch editing and automated workflows • User permissions • Serials cataloging	Reduces the time and effort required for manual cataloging tasks and enables staff to focus on higher-level work Improves data security and accuracy by controlling access to cataloging records Streamline serials cataloging workflows and ensure that serials records are consistent, accurate, and easily searchable

BIBFRAME Transformation	• Administration
	   • Rule builder
	   • Automate services
		Enables libraries to easily and accurately map their existing data to BIBFRAME data models by providing a user-friendly interface for building custom rules and transformations
		By automating routine cataloging tasks, users can save time and effort

BIBFRAME Sharing	• BIBFRAME staff search	Staff search in FOLIO enables staff to quickly and easily find and access the information they need to perform their duties
BIBFRAME Reporting	• Capture history of who edited what, when, and why • User activity dashboards • Department activity reports	Gamified and enriched reporting in FOLIO enables catalogers to view the history of their BIBFRAME edits in a more engaging and interactive way, while also providing deeper insights into how users access and engage with BIBFRAME data.
JUL 2024 / SUNFLOWER		
BIBFRAME Editing	• Profile editor and marketplace	Centralized platform for libraries to manage and share their BIBFRAME profiles (modular config used to describe different things like books, people, etc.)

Project Phases

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FOLIO Linked Data Project Phases

Q-release

R-release

| May 1-June 30 | June30 – August 31 | Sept 1 –Nov 30 | December 1 – January 31 | February 1 – March 31 |

Phase I – Discovery and Evaluation

- Full integration env created with ci/cd enabled
- Tools and technologies agreed upon
- Evaluate Data.Graph architecture and come up with overall architectural approach
- Integrate LC's LinkedData editor into FOLIO (as-is)
- Marva user study
- Project backlog for Phase II created

Phase II – Thin Thread Implementation

- Deploy Data.Graph architecture to Integration env
- Create wireframes based on feedback from the Marva user study
- Update LinkedData Editor with most impactful improvements for basic workflows
- ETL: Transform original MARC records into BIBFRAME
- Build LinkedData "handshake" with FOLIO Inventory via APIs
- Project backlog for Phase III created

Phase III – Fine-Tuning & Optimization

- Test and optimize
  - Linked Data Import into Inventory
  - ETL pipeline
  - Linked Data Editor
  - Internal Data Viewer
- Update transformation rules for local administrative / historical data
- Add BIBFRAME → MARC transformation to ETL pipeline
- User account management
- Project backlog for Phase IV created

Phase IV – Building Momentum

- Activity Dashboards
- Staff Search
- User Permissions
- Rule builder for the ETL pipeline
- Batch edits / automated workflows
- Project backlog for Phase V created

Phase V – Launch & Beyond

- Serials Cataloging
- Project backlog for Phase VI created

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Discovery and Evaluation Phase

- *Sprint 1*
    - Complete evaluation of existing Marva editor's architecture and codebase
    - Create Folio environment
    - Create ci/cd pipelines
    - Create GitHub repo for backend and frontend code
- *Sprint 2*
    - Set up and test existing ETL process and Airflow
    - Create microservice skeletons for Folio and LinkedData integration
- *Sprint 3*
    - Create Data.Graph environment
    - Complete ETL evaluation to form a vision about the deployment in the context of FOLIO and ETL working together
- *Sprint 4*
    - Complete architectural approach for the Data.Graph-Folio integration (backend and frontend)
    - Complete skeleton scope for Phase II and beyond

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