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Alma Integrates with External Systems: Experiences and Lessons Learned at CWU

Ping Fu

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Central Washington University

Minneapolis, MN, May 5-8, 2015



Agenda

- Overview
- S/FTP Server
- Patron Load
- Bursar Transfer
- EDI/Invoice Payment
- Experiences and Lessons
- Questions and Comments

Audience

- New Alma users
- Plan to migrate to Alma
- Acquisitions, Circulation & Systems
- People who are interested in the topic



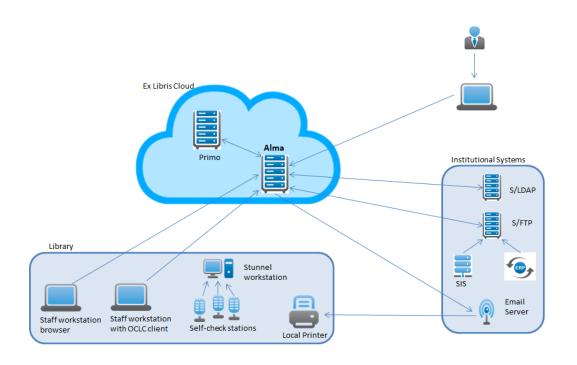
Overview

- Integrates with external systems via standard protocols such as S/FTP
- configures an integration with external system
 - Data transition between Alma and External system
 - External integration profile
 - More information https://developers.exlibrisgroup.com/alma/integrations



Alma integrations diagram

https://developers.exlibrisgroup.com/alma/integrations





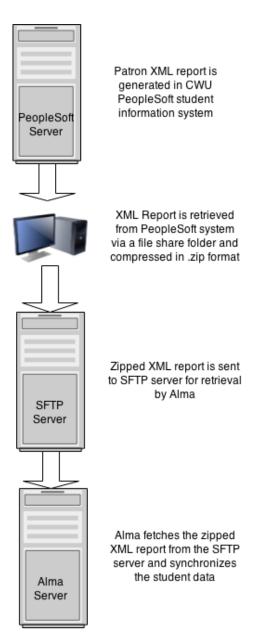
Setting Up an S/FTP

- Facilitates passing data between CWU and Alma
- Chiefly concerns the following functions:
 - Importing patron records
 - Exporting invoices
 - Exporting fines/fees (bursar out)
- Must have username/password authentication.
- Alma does not support SFTP authentication via certificates
 - S will be responsible for setting up

Patron Load

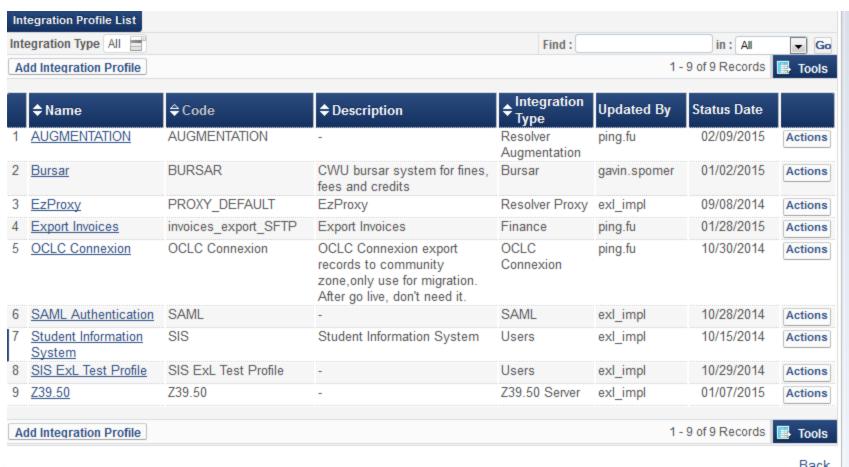
- Retrieve data from PeopleSoft
- SFTP compression process
- Retrieving and processing XML files in Alma





The diagram was created by Gavin Spomer, Library IT, Brooks Library, Central Washington University

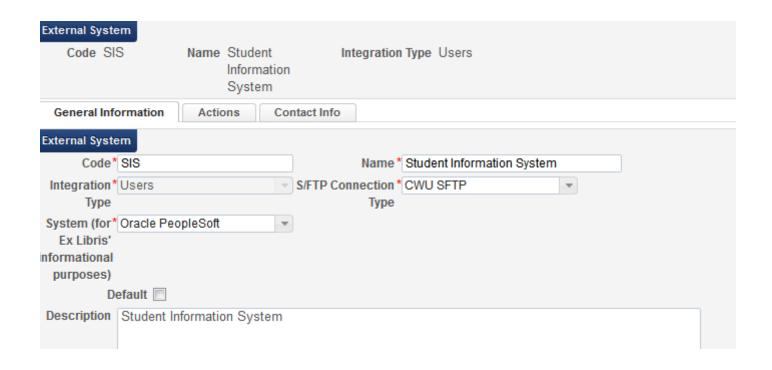
Integration Files





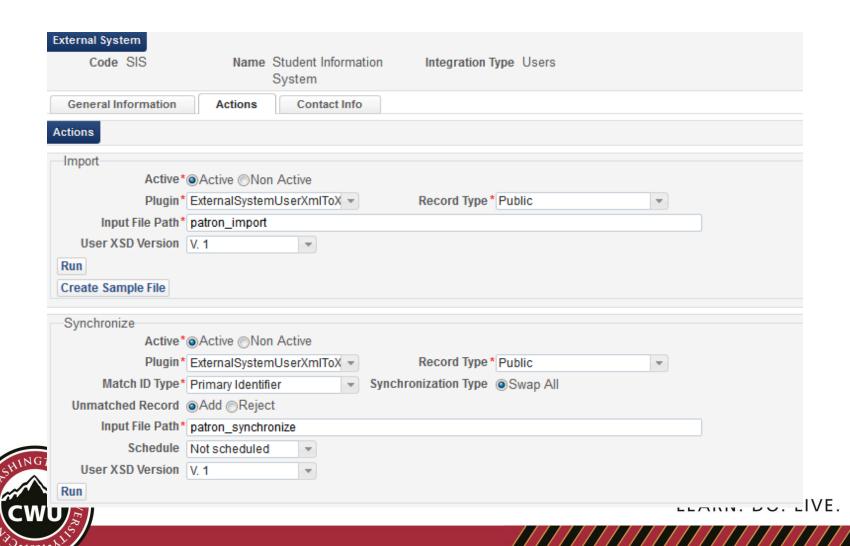
LEARN. DO. LIVE.

Integration File: SIS General





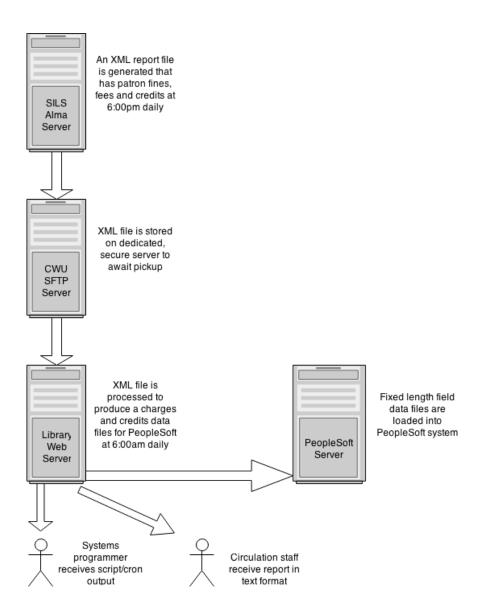
SIS Actions: Import and Synchronize



Bursar Transfer

- An XML report file generated in Alma
- S/FTP
- The XML file is processed
- Load data into PeopleSoft





The diagram was created by Gavin Spomer, Library IT, Brooks Library, Central Washington University

Integration File: Bursar General

External System				(i)
Code BURSAR Name Bursar	Integratio	n Type Bursar		
General Information Actions Contact I	nfo			
External System				
Code * BURSAR	Name*	Bursar		
Integration * Bursar	S/FTP Connection*	CWU SFTP	•	
Туре	Туре			
System (for* Oracle PeopleSoft				
Ex Libris'				
informational				
purposes)				
Default 🔳				
Description CWU bursar system for fines, fees	and credits			
			.41	



Cancel

Save

Bursar Actions

External System			
Code BUR	RSAR	Name Bursar	Integration Type Bursar
Actions			
Export			
A	ctive* A	ctive Non Active	
P	lugin		w
Time before ex	kport* 0		
(D	ays)		
Minimal amoun			
	user		
User identifier			*
User gro	oups gra	d student, faculty, adj fac	culty, emeritus, lib faculty, admin exempt, staff, di 🔎 🎶 🏈
		dit, Damaged item fine,	Lost item process fee, Lost item replacement fi Ph
	kport	- 11	
Institutional fine			
Library fine	e\fee Bro	oks Library, CWU-Des I	<u> </u>
Output file	path* bur	sar_feed	
Sche	edule Eve	ry day at 18:00 🔻	
Run			



	_	
		Group Name
1	V	student
2	V	grad student
3		faculty
4	V	adj faculty
5		emeritus
6		lib faculty
7		admin exempt
8		staff
9		dist civil svc
10		library staff
11		family
12		temporary
13		associate
14		courtesy
15	1	community
16		lib dept loan
17		off site loan
18		music ta
19		alumni
20		dist admin
21		no summit
22		summit inst
23		summit v stu
24		summit v grad
25		summit v fac
26		summit v staff
27		summit v spec
28		summit v test
29		Default



Electronic Data Interchange (EDI)

- Incoming invoice
- Sending orders to vendors
- Configure EDI communication with a vendor
 - On the Search Vendors page (Acquisitions >
 Acquisitions Infrastructure > Vendors) select a
 vendor. The Vendor Details page opens.
 - 2. Click the EDI Information tab



EDI Configuration

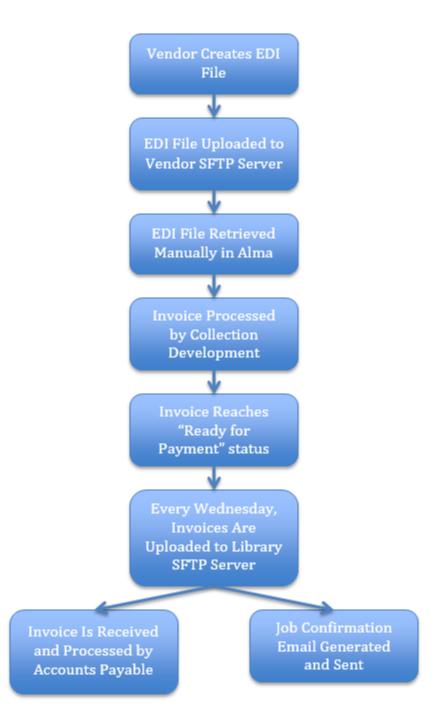
Vendor EDI Attributes EDI code 1694243		IS-SAN EDI namin conventio	g * Standard EDI vendor for n	mat* Other
Invoices	_			
POs		_		
Additional order number		Include fund code 🔽		
- Invoice job parameters				
Status		Schedule Not sche	eduled Run Now	
Upload EDI		Add and Execute		
Do not prorate				
- S/FTP connection				
	FTP Information for EDI of current Ve	endor		
Max. Number of Files	1	Max, file size		
	ftp.midwestls.com	UserName*		
Port*	•			
Input directory		Output directory		
Max. file size		Allow Navigation	•	
Ftp Server Secured		FTP mode		v
Send command				
Test FTP	Append	TTT Tuosivo mouo		
- Per Organization Unit EDI				
				1-1 of 1 Records 📑 Tools
♦ Organisation Unit			♦ EDI code	♦ EDI type
Central Washington Univ	rersity			31B - US-SAN Delete
Organisation	▼ EDI code	EDI ty	/pe 014 - EAN-13 ▼	
Unit				

LEARN. DO. LIVE.

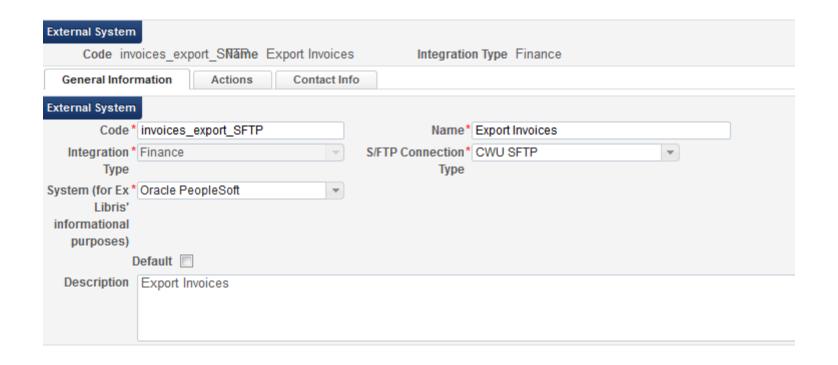
Invoice Export

- Ready to Be Paid
- Every Wednesday at 11:00 PM
- XML file -> SFTP
- Accounts Payable picks it up
- A script to import required data into PeopleSoft: invoice number, vendor code, and unique identifier, etc.





Integration File: Invoices General





Invoices Actions

Export Invoices For Payment		
Active*	Active Non Active	
Plugin	_	
Output File Path	invoices_export	
Run		
Schedule	Every Wednesday a 🔻	



Experience & Lessons Learned: Collaboration with University IT

- Present at Academic Technology Advisory Council (ATAC)
- Point of Contact
- Inform external systems admin/support
- Timeline
- Communication, information sharing, follow up and track
- Open firewall to particular IP address and ports

esting firewall rules

Experiences & Lessons: Technical Issues

- The match will be done on <username> and Alma user 'primary ID'
- No loans show up in My Account
- Shibboleth authentication by adding <type>EXTERNAL</type> to XML
- Duplicate users in PeopleSoft
- "UTF-8" type error, even though the file has the encoding="UTF-8" in it
- String index out of range: -6
- The <resourcesharinglibrarycode> element needs to be in the <userdetails> section of the XML.
- java.lang.Exception: com.exlibris.core.infra.common.exceptions.InfraException: Failed to _rename file in FTP server. 3: Permission denied.

Experiences & Lessons: Testing & Vendors Support

- Testing
- Listservs
- Communication with vendors
- SF Case for ExL
- Known Issues
- Job Monitoring



Questions? Comments?

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