



MACQUARIE  
University

# Patron Management with Alma

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# Introduction

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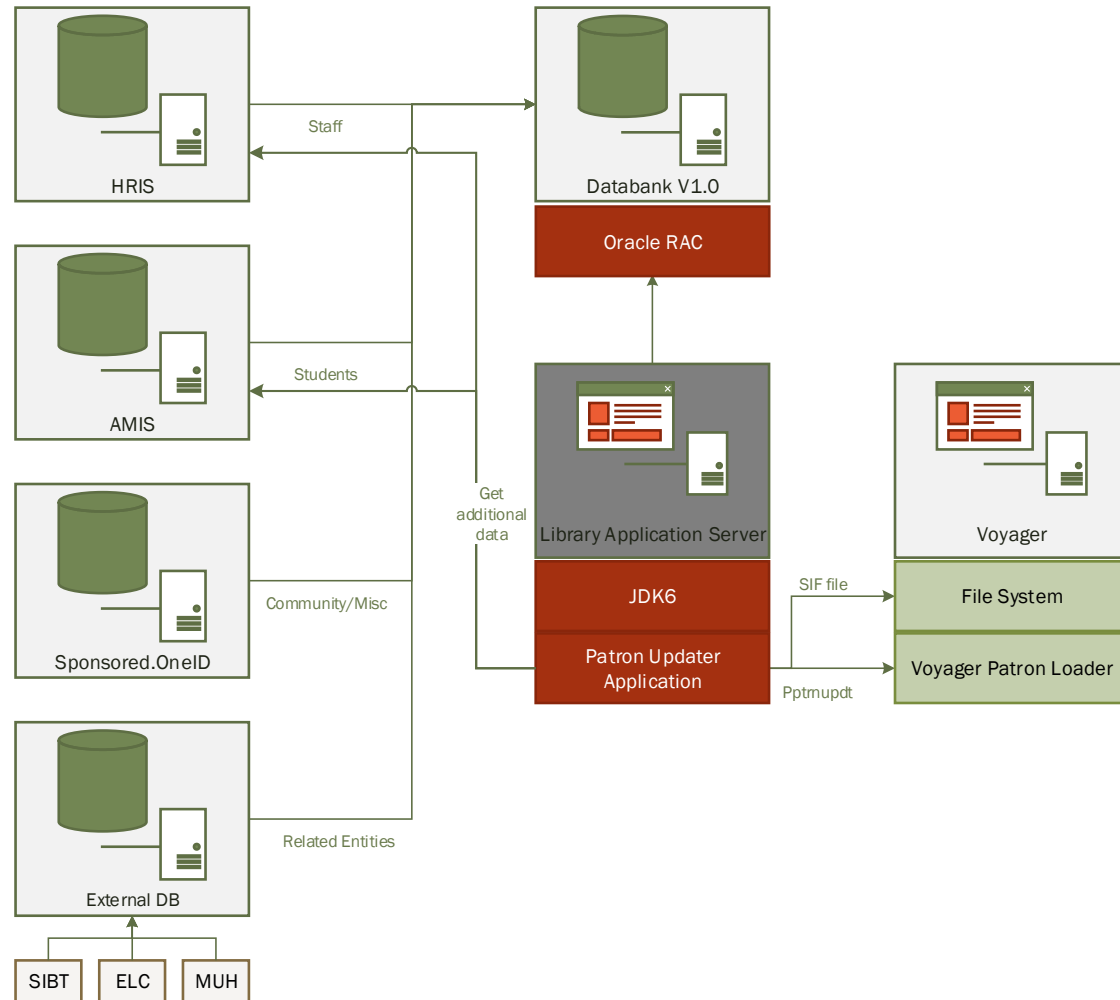


1. Patron Management with Voyager
2. “Databank”
3. Moving to Alma
4. Question Time?

# Patron Management with Voyager

How it was...

- Source Systems
- Databank V1.0
- Library Application Server – Patron Updater
- Obtain Additional Data
- Populate Voyager

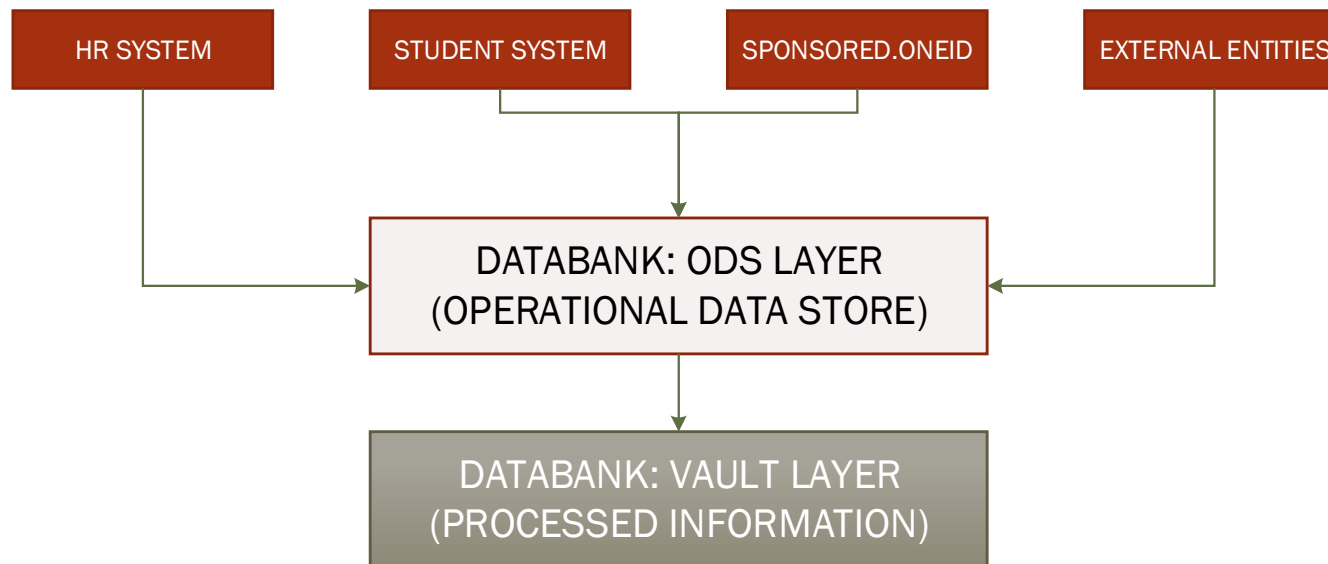


# “Databank”

## Data Warehouse

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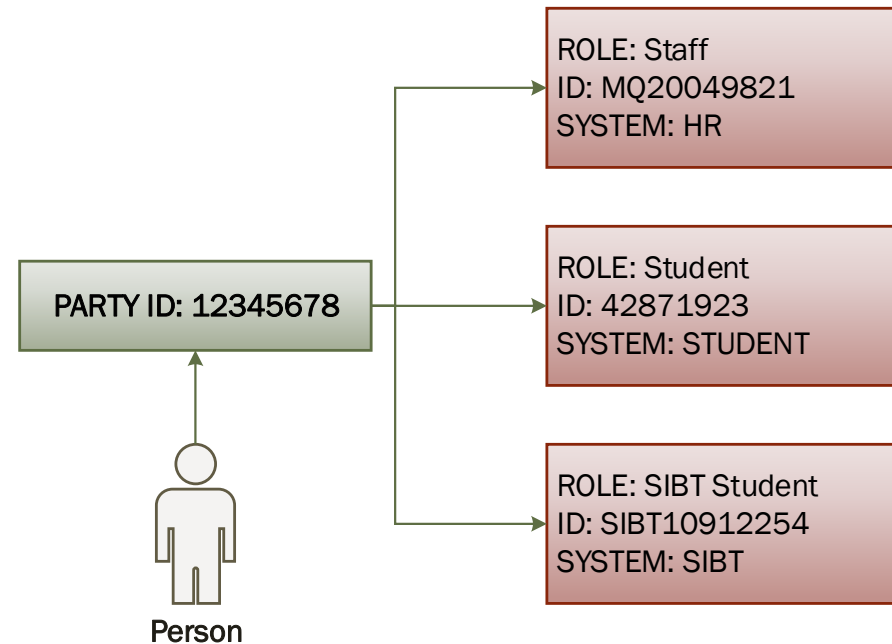
- Macquarie University Data Warehouse
  - Managed by central I. T. (Informatics)
- Collects raw data from most systems
- Processes raw data including ‘people data’
- Evolving and improving – now at Version 2.0



# “Databank”

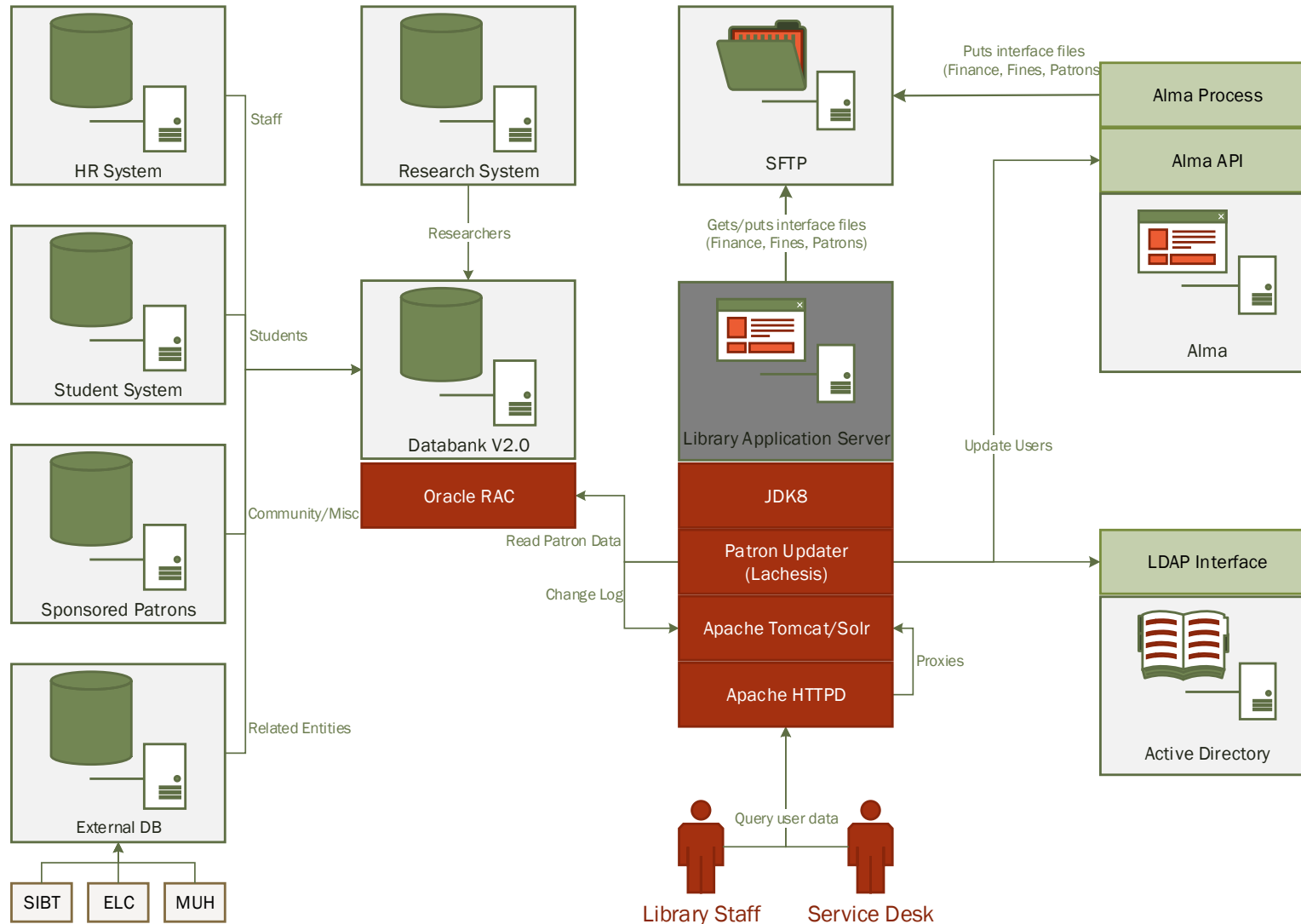
## Processed “People” Data

- Curse of the Debit Card...
- Each “person” gets a single identifier – Party ID
- Roles attached to Party ID with system identifiers
- Party ID is not known to users
- Added complexity for Alma
  - Management of changing roles and IDs
- Has benefits
  - Can have a single account for users so loans persist through ID changes
  - Able to authenticate to a single Alma account using any role/id



# Moving to Alma

## High Level Systems Diagram



# Moving to Alma

## Using the API

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### The Process:

1. Fetch all People data from Databank (60000)
2. For each person
  1. Fetch person from Alma  
[Alma User API GET request]
  2. If Person Exists
    1. Compare Alma data with Databank data
    2. If Different
      1. Update Alma with Databank data  
[Alma User API PUT request]
      2. Log the specific data changes that occurred in the change log
  3. If Person Doesn't Exist
    1. Add Person to Alma  
[Alma User API POST request]
    2. Log the addition

# Moving to Alma



## Issues

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1. Speed of the process – 1.5 seconds per record (25 hours processing time!!)
  - Improved: parallel processing – cloud advantage! Reduced to 1.5 hours for full load.
2. Expiration dates – unlike Voyager, not required
  - policy decisions need to be made
3. Primary Identifier
  - Persistent for a ‘person’
  - Impacts Primo e-Shelf if ID changes
  - Case sensitivity of Alma User Identifiers



# The End




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Questions?

# Appendix A

## Change Log





**PATRON INFORMATION**

NEW SEARCH
VIEW CHANGE LOG

Enter search:    ▾

<b>CHANGE LOG FOR</b>	10023449
<b>RESULTS FOUND</b>	39
<b>CHANGE KEY</b>	<span style="background-color: #00FF00; padding: 2px;">ADDED</span> <span style="background-color: #FF0000; padding: 2px; margin-left: 5px;">DELETED</span> <span style="background-color: #FFFF00; padding: 2px; margin-left: 5px;">MODIFIED</span>

◀

1

2

▶

2015-02-03	SOLR	OLD	null
22:51:19	middleName	NEW	
2015-02-03	ALMA	OLD	10023449
22:03:28	primaryId	NEW	MQ97000313
2015-02-03	ALMA	OLD	10023449
22:03:28	primaryId	NEW	MQ97000313
2015-02-03	ALMA	OLD	10023449
22:03:26	primaryId	NEW	MQ97000313
2015-02-03	ALMA	OLD	ONE_ID   ONE_ID   mq97000313   null   ACTIVE
22:03:26	userIdentifier	NEW	
2015-02-03	ALMA	OLD	
22:03:26	userIdentifier	NEW	PARTY_ID   Party ID   10023449   null   ACTIVE

# Appendix B

## Technologies Used in Patron Updater

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- Java 7
- Oracle JDBC
- Google Guice (Lightweight Dependency Injection)
- Jersey (Java REST Client)
- Apache OpenJPA (Object Relational Mapping)
- Apache Solr (Search indexer)
- Apache Maven (Software build tool)
- Apache Tomcat (Java application server)
- Apache HTTPD (Web server)