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# Eliminating Data Redundancy: Our Solution for Database Discovery using Alma/Primo

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# Eliminating Data Redundancy: Our Solution for Database Discovery using Alma/Primo



EAST TENNESSEE STATE  
UNIVERSITY

# Eliminating Data Redundancy: Our Solution for Database Discovery using Alma/Primo

ELUNA 2016

Presented by:  
Travis Clamon, MSIS  
Jacob Kindle

# Background

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- Travis Clamon, MSIS  
Electronic Resource Specialist
- Jacob Kindle  
Web Manager
- ETSU = ~15,000 Students / 2,000 employees
- Migrated to Alma & Primo in June 2015



# Our E-Resource Workflow Goal

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- Eliminate Redundant Data
- Simplify Workflow
- Improve Discovery
- User Experience
- Support



# Electronic Resource Endpoints



The screenshot shows the Quillen College of Medicine Library website. At the top, there is a navigation bar with links for Home, Get It, Help, Safety, A-Z Index, Quick Links, and People Finder. Below this is a search bar with the text 'Search ETSU'. The main content area is divided into several sections: 'Most Visited E-Sources' featuring logos for PubMed, DynaMed Plus, Clinical Key, STAT!Ref, and UpToDate; a search section with a search box and a keyboard layout; 'Library News' with announcements about MLK Day and Winter Holidays; and a 'Questions? Ask a Librarian!' button. At the bottom, there are four columns: 'My Library' with links to operating hours and account management; 'Resources' listing various databases; 'Services' listing circulation and inter-library loan services; and 'Quick Links' listing hours of operation and wireless instructions.



The screenshot shows the Charles C. Sherrod Library website. The top navigation bar includes the library name, date and time (Wed Mar 16 2016 7:36am - 2am), and social media icons. Below this is a secondary navigation bar with links for Research, Services, About Us, My Accounts, and Information. The main content area features a search bar with the text 'Find books, articles, media and more!' and an 'Advanced Search' button. Below the search bar are four columns of links: 'Technology' (Computer Availability, Borrow a Laptop, Print, Copy, Scan, Charge a Mobile Device), 'Studying' (Spaces & Study Rooms, Testing Center, Tutoring), 'Research Tools' (Research and Course Guides, Write, Cite, Bibliography, Databases), and 'How To' (Access Off Campus, Borrow, Renew, Request, Reserve a Room). At the bottom, there are three boxes for 'Academic Searching', 'Formatting APA Papers', and 'Academic Publications and P...'. The footer contains contact information for the library, including the address (344 J. L. Senter, Jr. Bldg., Murfreesboro, TN 37132), phone number (423) 439-4307, and website (http://lib.etsu.edu).

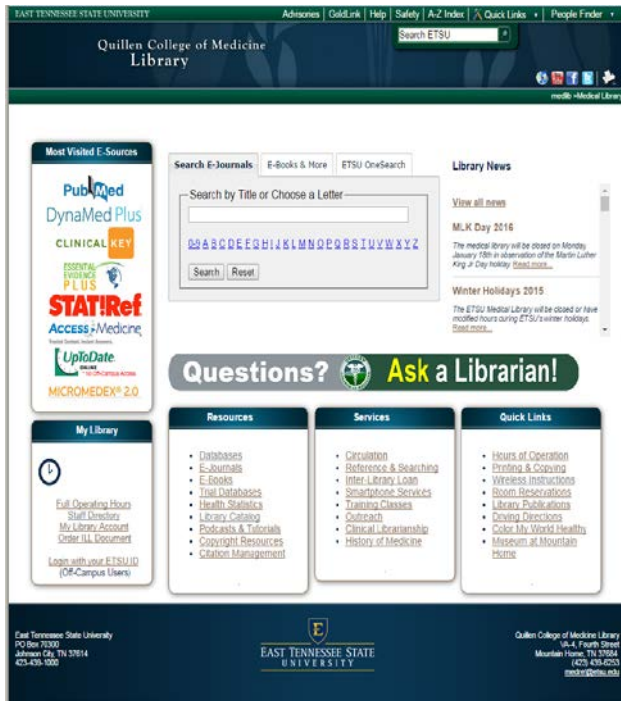


# Electronic Resource Endpoints

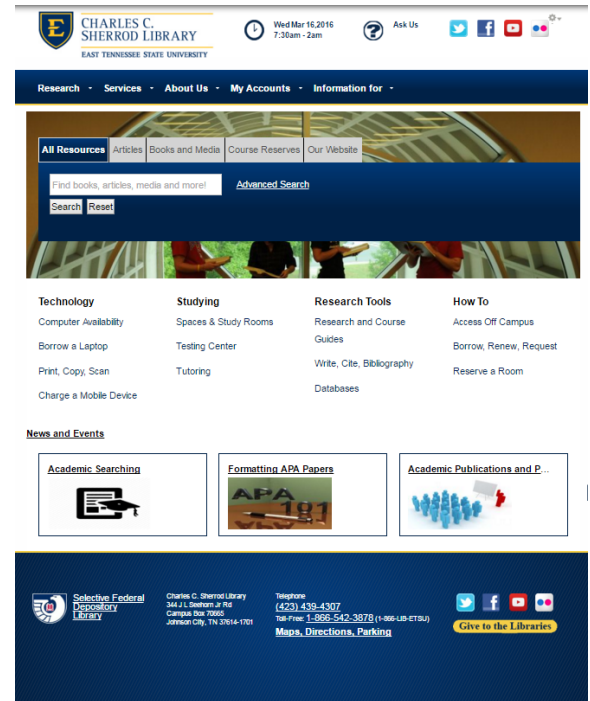
 LibGuides

Alma

Primo



The screenshot shows the Quillen College of Medicine Library website. At the top, there is a navigation bar with links for Admissions, GetLink, Help, Safety, AZ Index, Quick Links, and People Finder. Below this is a search bar labeled "Search ETSU". The main content area is divided into several sections: "Most Visited E-Sources" featuring logos for PubMed, DynaMed Plus, Clinical Key, STAT!Ref, and UpToDate; a search section with a "Search E-Journals | E-Books & More | ETSU OneSearch" header and a search box; "Library News" with a "View all news" link and two news items; a "Questions? Ask a Librarian!" button; and a grid of "Resources", "Services", and "Quick Links" with various links and icons. The footer contains contact information for the library and the university.



The screenshot shows the Charles C. Sherrard Library website. The top navigation bar includes "Research", "Services", "About Us", "My Accounts", and "Information for". Below this is a search bar with the text "Find books, articles, media and more!" and a "Search" button. The main content area is organized into a grid of categories: "Technology" (Computer Availability, Borrow a Laptop, Print, Copy, Scan, Charge a Mobile Device), "Studying" (Spaces & Study Rooms, Testing Center, Tutoring), "Research Tools" (Research and Course Guides, Write, Cite, Bibliography, Databases), and "How To" (Access Off Campus, Borrow, Renew, Request, Reserve a Room). There are also sections for "News and Events" with three featured items: "Academic Searching", "Formatting APA Papers", and "Academic Publications and P...". The footer provides contact information for the library, including the address, phone number, and a "Give to the Libraries" button.





# How did we accomplish our goal?

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## 6 Steps:

- Assessment
- Metadata
- Alma Setup
- Primo Setup
- Primo X-Service API
- A-Z Development







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## Step 1:

# Assessment

- Identify Resources
- Compare with existing collections in Alma
- Develop Final list for metadata

- Review & Compare
- Full text collections should already exist in Alma
- Create Electronic Collections of “Database” type if no portfolios exist (Abstract / Website / etc.)
- The final list will serve as a checklist for metadata





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## Step 2:

# Metadata

- Create MARC Records for each database/resource
- MARCedit
- Permalinks recommended for URL's
- Create Authority Lists for Subjects, Providers, and Formats
- 245a = title
- 500a = database coverage
- 520a = short description
- 520b = long description
- 653a = keywords
- 914a = Licensed / OA
- 917 = URL / Provider/Access Note
- 960a = ETSU subject
- 963a = Format



---

=LDR \\\nmi\22\\\u\4500  
=008 \\\u\\\s\\\000\0\eng\0  
=245 00\$aCriminal Justice  
=500 \\\\$aDatabase coverage: 1981-current.  
=520 \\\\$aFull-text coverage of crime and its social and legal implications.\$bSupports research on crime, its causes and impacts, legal and social implications, litigation, and crime trends. Includes correctional and law enforcement trade publications, crime reports, and other material relevant to careers in criminal justice and law enforcement.  
=653 \\\\$aAddiction  
=653 \\\\$aCriminology  
=653 \\\\$aCorrections administration  
=653 \\\\$aCriminal law  
=653 \\\\$aFamily law  
=653 \\\\$aIndustrial security  
=653 \\\\$aRehabilitation  
=914 \\\\$aLicensed  
=917 40\$3ProQuest\$uhttp://libs.etsu.edu/links/cjft.html\$zETSU  
=960 \\\\$aCriminal Justice and Criminology  
=960 \\\\$aPsychology  
=960 \\\\$aSocial Work  
=963 \\\\$aAbstract and Indexing

## Sample MARC Record – Criminal Justice (ProQuest)



## Refine My Results

Provider +

Format -

- Abstract and Indexing (151)
- E-Books (20)
- Images (12)
- Maps (1)
- Newspapers (11)
- Point of Care (14)
- Reference Tools (8)
- Streaming Media (10)
- Style Guides (3)
- Test Preparation (1)

Subject -

- Accountancy (8)
- Anthropology (9)
- Appalachian Studies (10)
- Archival Studies (1)
- Art (9)
- Audiology (9)
- Biological Sciences (27)
- Business (21)
- Cardiopulmonary Science (24)
- Career Resources (2)
- Chemistry (15)
- Communication Studies (6)
- Computing (19)
- Counseling (8)
- Criminal Justice and Criminology (11)
- Dental Hygiene (24)
- Digital Media (3)

## Create a controlled vocabulary for all facet fields (Subject, Format, Provider, etc)

- Consult with staff and librarians
- This will eliminate variations of terms causing duplicate facet terms (“Computing” vs. “Computer Science”)
- Primo Static Facets will also help (discussed shortly)

**Before you begin creating records.....**



---

## Step 3: Alma Setup

- Import records using import profile
- Complete required fields for all electronic collections
- Search Index – Easy find
- Associate to Alma set or top level collection



Profile Type Repository

Profile name Database LOAD

Profile Details

Normalization & Validation

Match Profile

Set Management Tags

Inventory Information

### Profile Details

Profile name Database LOAD

Profile description Import Database MARC Records

Originating system Other

File name patterns -

Import Protocol Upload File/s

Cross walk No

Physical source format Binary

Encoding format ISO8859\_1

Source format MARC21 Bibliographic

Target format MARC21 Bibliographic

Status Active

Profile Details

Normalization & Validation

Match Profile

Set Management Tags

Inventory Information

### Match Profile

Serial match method 001 To MMS\_ID Match Method

Non Serial match method 001 To MMS\_ID Match Method

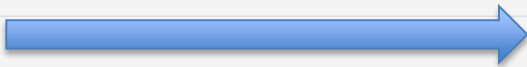
### Match Actions

Handling method Automatic

Upon match Overlay

Merge/Overlay

Merge method Database Overlay



Allow bibliographic record deletion No

Do not override/merge a non-brief record with a brief version No

Unlink bibliographic records from community zone No

Do not override/merge record with an older version Disabled

DatabaseOverlay.dslr

```
rule "Database MARC Merge"  
  when  
    merge  
  then  
    replace MARC.XXX excluding "001"  
end
```

Allows overlay of local fields

## Create Import Profile & Merge Rule





Resource description [Web of Science](#)

Electronic Collection name [Web of Science](#)

Electronic Collection Description    General Information    **Additional Information**    Notes    Group Settings    History

**Electronic Collection Information**

Source  Source ID

Creator

Alternative Title

**Electronic Collection Level URL**

Electronic Collection Level URL (override)

Electronic Collection is free?  Not Free  Free

Electronic Collection Proxy Enable  No  Yes

Electronic Collection Proxy Selected

Language

**Additional descriptive information**

Number of portfolios 0 Character set -

## Complete required fields for all electronic collections

Electronic Collection Level URL (ETSU uses short permalinks)

Additional descriptive information



The screenshot displays the 'Repository Search' interface. At the top, a search bar contains the text 'Find All titles where Local field 917 contains ETSU Go'. A blue arrow points to the search bar. Below the search bar, there are tabs for 'Institution' and 'Community'. On the left side, there are filters for 'Limit results to:', 'Inventory', 'Material Type' (Book (1), Computer file (204)), 'Language' (English (205)), 'Publication Year' (1998 (1), 2016 (1)), 'Collection' (ETSU Databases (196)), and 'Resource Type'. The main search results area shows three items, each with a barcode icon and a list of details:

- SciFinder**  
**Computer file (Other material - Electronic)**  
 Subject: Biographies Language: English  
 Collections: [ETSU Databases](#)  
 Availability: [Electronic collection](#) SciFinder  
[Edit](#) | [Order](#) | [Request](#) | [Document Delivery](#) | [Add to collection](#) | [View It](#) | [More info](#)
- Safari Books Online (TN Board of Regents Collection)**  
**Computer file (Other material - Electronic)**  
 Language: English  
 Collections: [ETSU Databases](#)  
 Availability: [Electronic collection](#) Safari Books Online  
[Edit](#) | [Order](#) | [Request](#) | [Document Delivery](#) | [Add to collection](#) | [View It](#) | [More info](#)
- Gale Virtual Reference Library**  
**Computer file (Other material - Electronic)**  
 Subject: Arts & Entertainment -- Biography & Genealogy -- Business & Economics and others Language: English  
 Collections: [ETSU Databases](#)  
 Availability: [Electronic collection](#) Gale Cengage Virtual Reference Library

At the bottom of the search results area, there are pagination controls showing '1 - 20 of 205 Records' and a 'Tools' button.

**Create Search Index to find DB's - Save as an Alma Set**








## ETSU Databases

**General Details**



Name: ETSU Databases      Title: [ETSU Databases](#)

Description: -

External System: -      External ID: -      Library: ETSU Sherrod Library

- Sub-collections (1)
- Title List (198)

### Title List

Find :  in : Title

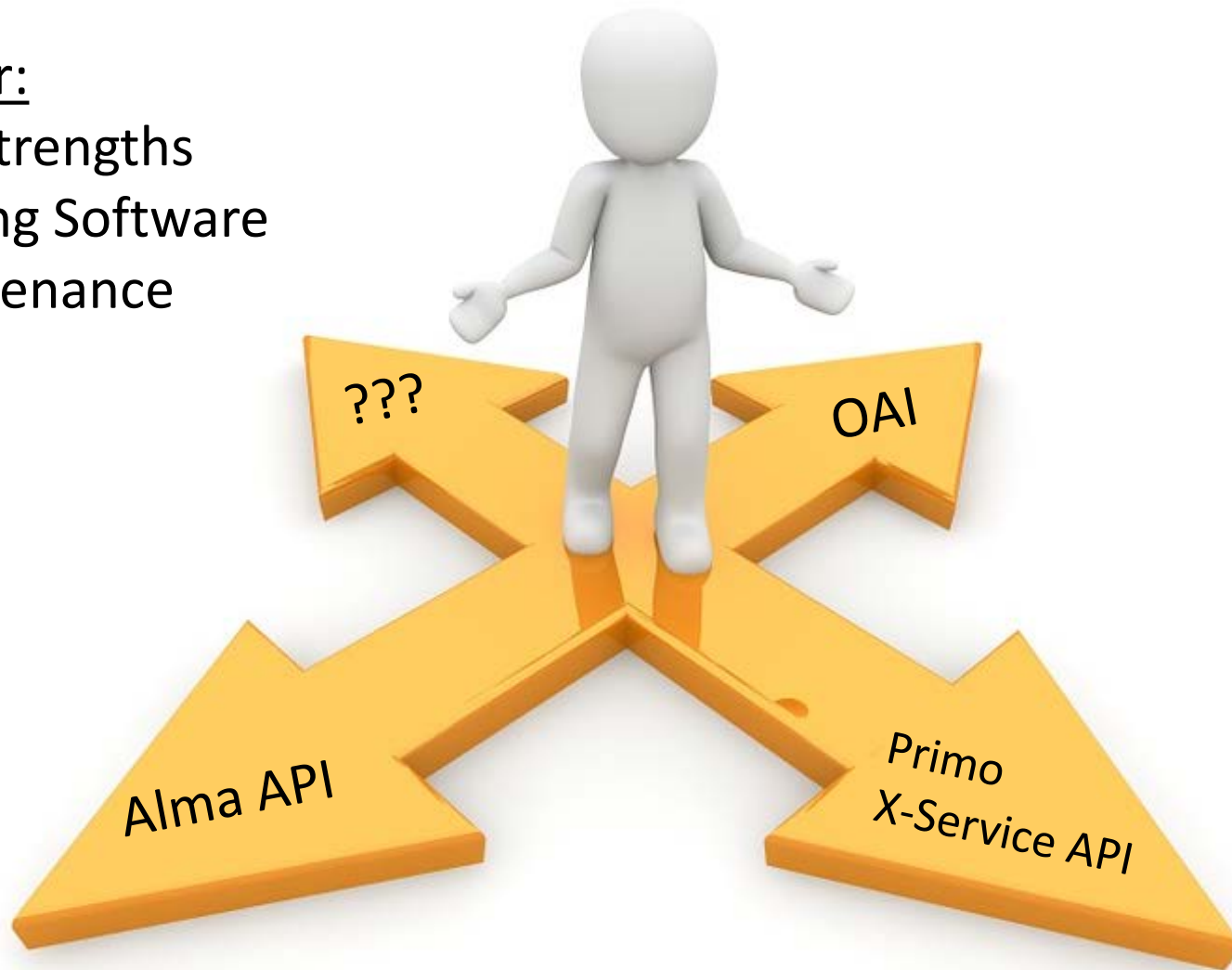
1 2 3  1 - 20 of 198 Records Columns

MMS ID	Title	Material Type	
1 9951466402331	<a href="#">ARTstor</a>	Computer file	<input type="button" value="View"/>
2 9969187302331	<a href="#">ClinicalKey</a>	Computer file	<input type="button" value="View"/>
3 99164888202331	<a href="#">ACM Digital Library</a>	Computer file	<input type="button" value="View"/>
4 99164987402331	<a href="#">MathSciNet</a>	Computer file	<input type="button" value="View"/>
5 99167786602331	<a href="#">CABI Global Health</a>	Computer file	<input type="button" value="View"/>
6 99173587902331	<a href="#">Canadian Newsstand Complete</a>	Computer file	<input type="button" value="View"/>
7 99174486302331	<a href="#">Snapshots</a>	Computer file	<input type="button" value="View"/>
8 99174486402331	<a href="#">FIAF Index to Film Periodicals Plus</a>	Computer file	<input type="button" value="View"/>
9 99174486502331	<a href="#">Public Health</a>	Computer file	<input type="button" value="View"/>
10 99174486602331	<a href="#">Telecommunications</a>	Computer file	<input type="button" value="View"/>
11 99174486702331	<a href="#">Science Journals</a>	Computer file	<input type="button" value="View"/>
12 99174486802331	<a href="#">Research Library</a>	Computer file	<input type="button" value="View"/>
13 99174486902331	<a href="#">Religion</a>	Computer file	<input type="button" value="View"/>
14 99174487002331	<a href="#">Psychology Journals</a>	Computer file	<input type="button" value="View"/>

# Create Top Level Collection / Import records from Alma Set

## Consider:

- Skill Strengths
- Existing Software
- Maintenance



## A-Z Database Strategy





# Why we chose Primo X-Services API?

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1. Records already harvested in Primo
2. Primo normalization needed work to take advantage of metadata in step 2
3. Facets/Search functionality passed on via API
  - Primo -> Excellent indexing -> Why reinvent the wheel?
4. Less coding / No separate DB needed





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## Step 4:

# Primo Setup

- Allows for better visibility of database results in Primo
- Sets up the framework for a custom A-Z list using X-Services API.

- Scoping
- Display / Linking Fields
- Facets
- Search Fields
- Normalization Rules
- Code Tables
- Mapping Tables
- View Settings





## > Edit Scope

### General Attributes for Scope ETSU Databases

Owner: 01ETSU - East Tennessee State University

Scope Value Name:

Scope Value Code:

Manually defined Search Scope

Description:

Scope Type:

Use Scope for:  Search  Restricted Search

## Create Scope

Used for X-Services API (A-Z List). Only scope DB records.



```
<facets>
  <collection>ETSU Databases</collection>
</facets>
```

**Rule group**

Source	Type	Value	Enabled
<input type="text" value="PNX"/>	<input type="text" value="PNX"/>	<input type="text" value="facets/collection"/>	<input checked="" type="checkbox"/>

**Conditions logic**

**Conditions**

Condition 1 - Logic	Type	Value	Success If
<input type="text" value="True"/>	<input type="text" value="PNX"/>	<input type="text" value="facets/collection"/>	<input type="text" value="Match Any"/>

**Condition1 - Routines**

Routine	Parameter
<input type="text" value="Check that string exists"/>	<input type="text" value="ETSU Databases"/>

**Transformations**

Transformation	Parameter
<input type="text" value="Write constant"/>	<input type="text" value="ETSU_DB"/>

**Action**

## Create Normalization Rule for Scope (based on Alma Top Level Collection)





MARC	Field	PNX
245a	Title	/display/title
500a	Coverage	/display/lds16
520a	Short description	/display/lds17
520b	Long description	/display/description
653a	Keywords	/display/subject
914a	Licensed / OA	/display/lds14
917	URL	/links/lln01
960a	ETSU Subject	/display/lds15 /facets/lfc15
963a	Format	/facets/lfc12
917 40 \$3	Provider	/display/lds10 /facets/lfc10

**Create remaining normalization rules / MARC to PNX**



> Code Tables

Update for Owner: 01ETSU - East Tennessee State University    Sub System: FRONTEND    Table Name : FrontEnd Display Fields    Search

Code Table Rows

Enabled	Field Code ▲▼	Field Name ▲▼	Language ▲▼
	<input type="text"/>	<input type="text"/>	All ▼
<input checked="" type="checkbox"/>	lds10	Provider	en_US
<input type="checkbox"/>	lds12	lds12	pt_BR
<input checked="" type="checkbox"/>	lds11	Link	en_US
<input checked="" type="checkbox"/>	lds12	Database Format	en_US
<input checked="" type="checkbox"/>	lds13	Access Note	en_US
<input checked="" type="checkbox"/>	lds14	License	en_US
<input checked="" type="checkbox"/>	lds15	Database Subjects	en_US
<input checked="" type="checkbox"/>	lds16	Database Coverage	en_US
<input checked="" type="checkbox"/>	lds17	Database Short Description	en_US

## Front End Display Fields





> Code Tables

Update for Owner: 01ETSU - East Tennessee State University Sub System: FRONTEND Table Name : Facet Labels

<input checked="" type="checkbox"/>	default.facets.facet.facet_local12	Database Format	en_US
<input checked="" type="checkbox"/>	default.facets.facet.facet_local15	Database Subject	en_US
<input checked="" type="checkbox"/>	default.facets.search-box.facet_local15	Database Subject	en_US
<input checked="" type="checkbox"/>	default.facets.search-box.facet_local12	Database Format	en_US
<input checked="" type="checkbox"/>	default.facets.facet.facet_local10	Database Provider	en_US
<input checked="" type="checkbox"/>	default.facets.search-box.facet_local10	Database Provider	en_US

## Facet Labels

> Code Tables

Update for Owner: 01ETSU - East Tennessee State University Sub System: FRONTEND Table Name : Facets Code Fields

<input checked="" type="checkbox"/>	facet_local10	Database Provider	en_US
<input checked="" type="checkbox"/>	facet_local12	Database Format	en_US
<input checked="" type="checkbox"/>	facet_local15	Database Subject	en_US

## Facet Code Fields





## > Mapping Tables

Update for Owner: 01ETSU - East Tennessee State University Sub System :  Table Name :

### Mapping Table Rows

Enabled	Static Facet Name*	Code Table Name
	<input type="text" value="Database"/>	<input type="text"/>
<input checked="" type="checkbox"/>	<input type="text" value="Database Subject"/>	<input type="text" value="facet_local15_values_codes"/>

## > Mapping Tables

Update for Owner: 01ETSU - East Tennessee State University Sub System :  Table Name :

### Mapping Table Rows

Enabled	Value Name	Value*
	<input type="text"/>	<input type="text"/>
<input checked="" type="checkbox"/>	<input type="text" value="Communication Studies"/>	<input type="text" value="Communication Studies"/>
<input checked="" type="checkbox"/>	<input type="text" value="Accountancy"/>	<input type="text" value="Accountancy"/>
<input checked="" type="checkbox"/>	<input type="text" value="Anthropology"/>	<input type="text" value="Anthropology"/>
<input checked="" type="checkbox"/>	<input type="text" value="Appalachian Studies"/>	<input type="text" value="Appalachian Studies"/>

**Consider making A-Z Subjects a static facet**





> **Code Tables**

Update for Owner: 01ETSU - East Tennessee State University    Sub System: FRONTEND    Table Name : Basic Index Fields



Isr15

Database Subject

en\_US

**Allows custom fields to be searchable**

 **Facets:**

Field	Value
Maximum Number of Displayed Facets	65

**Search Engine Configuration**



### Facets to display

Type	Items to Display	Sort	default_tab	lib_tab
Database Format	<input type="text" value="10"/>	<input type="text" value="alpha_numeric"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Database Subject	<input type="text" value="10"/>	<input type="text" value="alpha_numeric"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Database Provider	<input type="text" value="10"/>	<input type="text" value="alpha_numeric"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### Field to display in the full results

Field	
Provider	<a href="#">Edit</a>
Link	<a href="#">Edit</a>
License	<a href="#">Edit</a>
Database Format	<a href="#">Edit</a>
Database Subjects	<a href="#">Edit</a>

## View Configuration





**ABI/INFORM Complete**

ProQuest

● **Online access**

[View Online](#)

[Details](#)

[Actions](#) ▾

**Title:** ABI/INFORM Complete

**Subjects:** Business; Economic conditions; Corporate strategies; Management theory; Management techniques; Business trends; Market and industry reports; Product information; Accounting; Finance

**Description:** Business research database Comprehensive business research database including full-text journals, trade publications, market reports, industry reports, working papers, dissertations, business cases, and conference proceedings.

**Language:** English

**Source:** 01ETSU ALMA

**Provider:** ProQuest

**Link:** <http://libs.etsu.edu.iris.etsu.edu:2048/links/abi.html>

**License:** Licensed

**Database Format:** Abstract and Indexing

**Database Subjects:** Accountancy  
Business  
Economics and Finance  
Management and Leadership  
Marketing  
Public Administration  
Public Health  
Regional and Community Studies  
Sport Leadership and Management

**Links**

- > [ETSU Database Link](#)

# Primo View



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Step 5:

## Primo X-Services

ExLibris Developers Site:

[https://developers.exlibrisgroup.com/  
primo/apis/webservices/gettingstarte  
d](https://developers.exlibrisgroup.com/primo/apis/webservices/gettingstarted)

- API Demo
- API Current
- API Calls



# X-Services API (Unmodified)

01ETSU\*

Prev 1 2 3 4 5 ... 20 21 Next

English ▼

- Resource Type
- databases (200)
  - other (3)
- Topic
- Geography (4)
  - Pediatrics (13)
  - Law (8)
  - Psychology (9)
  - Biochemistry (6)
  - History (9)
- Show only
- online\_resource (200)
- Resource Type
- databases (200)
- Creation Date
- 2016 (1)
- Library
- EM (17)
  - NBLOUNT (66)
  - ES (200)
- local10
- IOP Publishing (1)
  - National Librar (1)
  - Wolters Kluwer (3)
  - Getty Research (1)
  - Duke University (1)
  - U.S. Government (2)

Results 1 - 10 of 203

Sorted by: Title ▼

1

## ABI/INFORM Complete

by undefined (undefined)

Business; Economic conditions; Corporate strategies; Management theory; Management techniques; Business trends; Market and industry reports; Product information; Accounting; Finance

Business research database Comprehensive business research database including full-text journals, trade publications, market reports, industry reports, working papers, dissertations, business cases, and conference proceedings.

2

## AccessMedicine

by undefined (undefined)

Anesthesiology; Anatomy; Biochemistry; Epidemiology and biostatistics; Histology; Microbiology; Pathology; Pathophysiology; Pharmacology; Physiology; Pulmonology; Behavioral medicine; Critical care medicine; Dermatology; Emergency medicine; Family medicine; Healthcare systems; Internal medicine; Cardiology; Endocrinology; Gastroenterology; Geriatric medicine; Hematology; Oncology; Infectious disease; Nephrology; Rheumatology; Neurology; Obstetrics and gynecology; Occupational and environmental medicine; Ophthalmology; Pediatrics; Physical exam and patient communication; Physical medicine and rehabilitation; Psychiatry; Radiology; Surgery; Drug monographs

Multimedia resource for medical education and clinical practice AccessMedicine supports medical education and clinical practice with: a collection of leading medical textbooks; a multimedia collection including examination and procedural videos; a differential diagnosis tool; practice guidelines, diagnostic tests, quick medical diagnosis and treatment outlines; self-assessment Q&A; patient education information in multiple languages; integrated drug database; Clerkship Corner suggested readings organized by core topics in internal medicine; and selected cases.



# X-Services API (Current)

ALL | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## Refine My Results

203 Results

### ABI/INFORM Complete

Business research database

### AccessMedicine

Multimedia resource for medical education and clinical practice

### AccessPharmacy

Multimedia resource for pharmacy education and practice

### Accounting and Tax

Current accounting, taxation, and financial management information for professionals

### ACM Digital Library

Association for Computing Machinery (ACM) publications online

### ACS Style Guide

## Quick Picks

### CINAHL Complete

Nursing and allied health database

### PubMed

Biomedical and health information

### Micromedex 2.0

Clinical decision-support databases

### JSTOR

Comprehensive academic articles and E-Books

### PsychINFO

Peer-reviewed literature in behavioral science and mental health

#### Provider

#### Format

- Abstract and Indexing (151)
- E-Books (20)
- Images (12)
- Maps (1)
- Newspapers (11)
- Point of Care (14)
- Reference Tools (8)
- Streaming Media (10)
- Style Guides (3)
- Test Preparation (1)

#### Subject

- Accountancy (8)
- Anthropology (9)
- Appalachian Studies (10)
- Archival Studies (1)
- Art (9)
- Audiology (9)
- Biological Sciences (27)
- Business (21)
- Cardiopulmonary Science (24)
- Career Resources (2)
- Chemistry (15)
- Communication Studies (6)







### > Mapping Tables

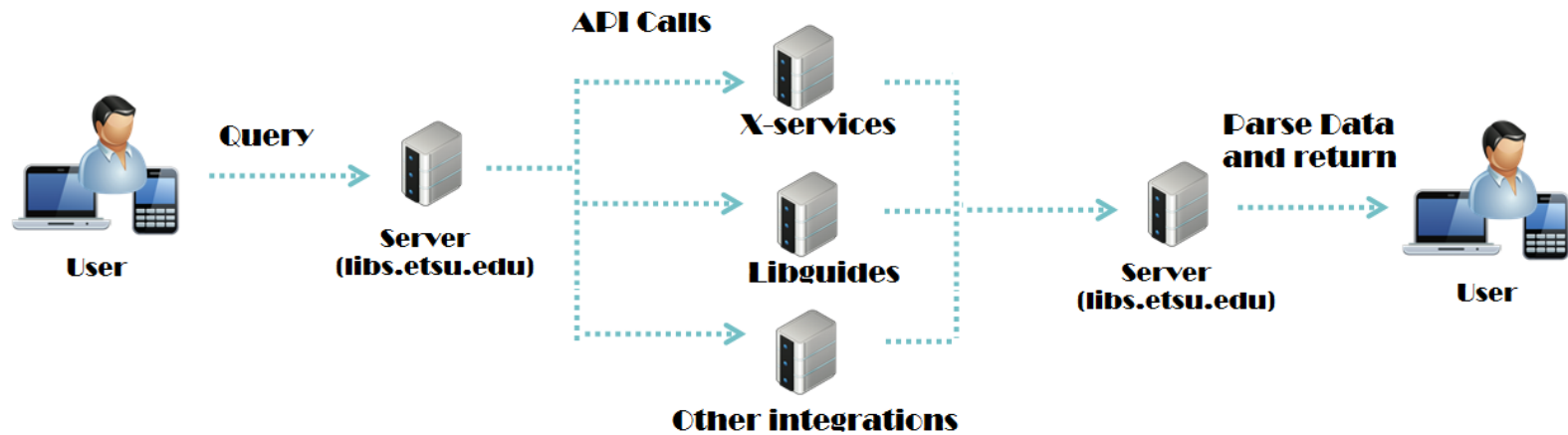
Update for Owner: 01ETSU - East Tennessee State University Sub System :  Table Name :  Search in Table:

#### Mapping Table Rows

Enabled	Start IP*	End IP	Description	Last Updated
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	12/22/15 By ExlibrisSupport
<input checked="" type="checkbox"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	10/07/15 By ExlibrisSupport

## SalesForce Case – Add IP's to mapping table

# API Diagram



# API Call – PHP or Javascript?

---

- Originally, the X-Services API used Javascript/AJAX to make calls to Primo.
- This only allowed access to the tool on certain machines, as the calls are restricted by IP and AJAX calls were being made from the client side.
- To make this more broadly useful, we used PHP and CURL to make the calls from the server side as follows:



# API Call – CURL

```
$institution = '01ETSU';
$bulkSize = '300';
$index = '1';
$sortField = 'stitle';
$lang = 'eng';
$json = 'true';
$loc = 'local,scope:(ETSU_DB)';
$callback = 'parseResponse';
$query = 'any,contains,01ETSU*';
$request = "http://etsu-edu-
primo.hosted.exlibrisgroup.com/PrimoWebServices/xservice/search/brief?institution=$institution&query=$query&bulkSize=$bulkSize&indx=$index&sortField=$sortField&lang=$lang&json=$json&loc=$loc";
$ch = curl_init($URL);
curl_setopt($ch, CURLOPT_RETURNTRANSFER, true);
curl_setopt($ch, CURLOPT_TIMEOUT, 30);
curl_setopt($ch, CURLOPT_HTTPHEADER, array("Content-Type: application/json; charset=utf-8", "Accept: application/json, text/javascript, */*; q=0.01"));
curl_setopt($ch, CURLOPT_URL, $request);
$output = curl_exec($ch);
// Close request to clear up some resources
curl_close($ch);
```





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Step 6:  
**A-Z List**  
**Development**

- Facets
- Quick Picks
- Navigation
- Course Guides
- Report a Resource



# Additional Features – Facet Break Down

---

- The standard facets in the original X-Services API code were not consistent with our goals (Resource Type, Show Only, Creation Date, etc)
- Instead, we added multiple local fields to address our needs. The new facets we use in this Resources Tool include Provider, Format, and Subject. The following video shows what happens when a facet is used to narrow results:



# Facet Break Down

Refined by: Computing (X)

19 Results

## Recommended Resources

### ACM Digital Library

Association for Computing Machinery (ACM) publications online

### Safari Books Online (TN Board of Regents Collection)

Digital library on information technology, software development, and digital media.

Represents the “best bet” databases for a subject hand-picked by our librarians

## Other Resources

### Applied Science and Technology Full-Text

Core literature in applied science including engineering, computers, informatics.

### arXiv

Open access articles in physics, mathematics, computer science, quantitative biology, quantitative finance and statistics

### Career and Technical Education

Vocational information and career search resources

Remaining databases that are tagged with the subject computing



# Facet Break Down

## Multi-Disciplinary Databases

- 1 **ARTstor** ⓘ  
Digital images in the arts, architecture, humanities, and sciences
- 2 **Dissertations and Theses at ETSU** ⓘ  
ETSU theses 2000-present, dissertations 1972-present.
- 3 **Dissertations and Theses Full-Text** ⓘ  
Comprehensive collection of theses and dissertations.
- 4 **eBooks on EBSCOhost** ⓘ  
Academic and popular online books.
- 5 **Films on Demand** ⓘ  
Curriculum-focused streaming video

Multi-Disciplinary databases are pulled into all searches and refinements. These results are placed at the bottom of a search.





# Facet Break Down - Video

ETSU Electronic Resources Tool (Beta)

New Search | e-Journals A-Z | Help

ALL | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## Refine My Results

Provider +

Format -

- Abstract and Indexing (151)
- E-Books (20)
- Images (12)
- Maps (1)
- Newspapers (11)
- Point of Care (14)
- Reference Tools (8)
- Streaming Media (10)
- Style Guides (3)
- Test Preparation (1)

Subject -

- Accountancy (8)
- Anthropology (9)
- Appalachian Studies (10)
- Archival Studies (1)
- Art (9)
- Audiology (9)
- Biological Sciences (27)
- Business (21)
- Cardiopulmonary Science (24)
- Career Resources (2)
- Chemistry (15)
- Communication Studies (6)

185 Results

### ABI/INFORM Complete ⓘ

Business research database

### AccessMedicine ⓘ

Multimedia resource for medical education and clinical practice

### AccessPharmacy ⓘ

Multimedia resource for pharmacy education and practice

### Accounting and Tax ⓘ

Current accounting, taxation, and financial management information for professionals

### ACM Digital Library ⓘ

Association for Computing Machinery (ACM) publications online

### ACS Style Guide ⓘ

Course Guides -

feedback



EAST TENNESSEE STATE  
UNIVERSITY

# Additional Features - Quick Picks

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- Quick Picks represents our 5 most commonly used databases. We obtain this data from Google Analytics which tracks the usage of our database links from all library sites.

## Quick Picks

---

### **CINAHL Complete**

Nursing and allied health database

### **PubMed**

Biomedical and health information

### **Micromedex 2.0**

Clinical decision-support databases


### **JSTOR**

Comprehensive academic articles and E-Books

### **PsychINFO**

Peer-reviewed literature in behavioral science and mental health





# Additional Features – A to Z Navigation

---

ALL | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

- Remove Native Pagination
- Add A-Z Navigation
  - A-Z Navigation is achieved using anchor tags corresponding to the first letter of each database



# Additional Features – Course Guides

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- In order to eliminate the need for students to search in multiple areas when doing research, we use the LibGuides API to pull in results from our course guides as well. This searches our course guides and returns results based on tags that correspond to the entered search term and to the subject facets. Once the result set has been broken down, either by a search query or by refinement using facets, Course Guides will replace Quick Picks in the right sidebar.
- The following video demonstrates the inclusion of Course Guides:



# Course Guides

ETSU Electronic Resources Tool (Beta)

New Search | e-Journals  
A-Z | Help

Type here

Search

ALL | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## Refine My Results

Provider +

Format -

- Abstract and Indexing (5)
- E-Books (1)

Subject -

- Appalachian Studies (1)
- Art (2)
- Biological Sciences (1)
- Chemistry (1)
- Communication Studies (2)
- Education (1)
- Foreign Language and Literature (4)
- Gender and Diversity (1)

Refined by: English (X)

6 Results

### Literature Resource Center **i**

Critical, biographical and contextual literary content

### MLA International Bibliography **i**

Modern languages, literatures, folklore and linguistics.

### Opposing Viewpoints in Context **i**

Explore issues from multiple perspectives

## Course Guides -

- ENGL 2210: British Literature I
- ENGL 2430: European Literature
- ENGL 2220: British Literature II
- English 1020: Critical Thinking and Argumentation. Prater

When a search or refinement is conducted, the 'quick picks' section on the right is replaced with our Course Guides corresponding to that search.



# Course Guides - Video

Type here

Search

ALL | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

## Refine My Results

Provider +

Format -

- Abstract and Indexing (151)
- E-Books (20)
- Images (12)
- Maps (1)
- Newspapers (11)
- Point of Care (14)
- Reference Tools (8)
- Streaming Media (10)
- Style Guides (3)
- Test Preparation (1)

Subject -

- Accountancy (8)
- Anthropology (9)
- Appalachian Studies (10)
- Archival Studies (1)
- Art (9)
- Audiology (9)
- Biological Sciences (27)
- Business (21)
- Cardiopulmonary Science (24)
- Career Resources (2)
- Chemistry (15)
- Communication Studies (6)

203 Results

### ABI/INFORM Complete ⓘ

Business research database

### AccessMedicine ⓘ

Multimedia resource for medical education and clinical practice

### AccessPharmacy ⓘ

Multimedia resource for pharmacy education and practice

### Accounting and Tax ⓘ

Current accounting, taxation, and financial management information for professionals

### ACM Digital Library ⓘ

Association for Computing Machinery (ACM) publications online

### ACS Style Guide ⓘ

## Quick Picks

### CINAHL Complete

Nursing and allied health database

### PubMed

Biomedical and health information

### Micromedex 2.0

Clinical decision-support databases

### JSTOR

Comprehensive academic articles and E-Books

### PsychINFO

Peer-reviewed literature in behavioral science and mental health

feedback



## Additional Features – Integrated Help Desk

- Another feature that makes this system more useful for our users is integration with our help desk ticketing system.
- This allows users to provide feedback if there is a problem with a resource, and automatically provides information about the resource to allow quicker resolution.

### America History and Life

**About this resource:**

History and culture of the United States and Canada. This bibliographic resource provides a robust source of information focusing on the history and life of the United States and Canada. Selective indexing includes over a thousand journals dating back over 55 years. This source has proved to be an important bibliographic reference tool for students and scholars of U.S. and Canadian history.

**Provider:**

EBSCO

**This resource covers the following topics:**

Appalachian Studies, History, Philosophy, Political Science, Regional and Community Studies, Women's Studies

[Report a resource error](#)





## Database Details

### ABI/INFORM Complete

Business research database

### ABI/INFORM Complete [/display/title](#)

#### About this resource:

Business research database Comprehensive business research database including full-text journals, trade publications, market reports, industry reports, working papers, dissertations, business cases, and conference proceedings.

[/display/description](#)

#### Provider:

ProQuest [/display/lids10](#)

#### This resource covers the following topics:

Accountancy,Business,Economics and Finance,Management and Leadership,Marketing,Public Administration,Public Health,Regional and Community Studies,Sport Leadership and Management

[/display/lids15](#)

[Report a resource error](#)





# Lessons Learned

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- A-Z Go Live -> Shortly
- Updates made to MARC takes 24 hours to reflect in Primo and A-Z list
  - URL permalinks help
  - Faster updates – Develop A-Z using Alma API
- LibGuides – Still working on exports
- Goals: Overall Success



# Questions?

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- Travis Clamon (clamon@etsu.edu)
- Jacob Kindle ([kindle@etsu.edu](mailto:kindle@etsu.edu))
- <http://libs.etsu.edu/sherrod/databases>

