CLEARED
For Open Publication

Oct 20, 2021

Department of Defense
OFFICE OF PREPUBLICATION AND SECURITY REVIEW

SLIDES ONLY

NO SCRIPT PROVIDED

CADE Updates & Improvements

CADE Updates since last Focus Group

- CADE Library Improved functionality
- Datasets, Tools, and Models Hub (DTMHub)
- Software Resource Data Report (SRDR) Bulk Export

CADE Library things to know…

- The CADE Library was updated in Feb 2021 with an added security layer to allow groups/organizations to restrict document access
- Security groups represent organizations/services (i.e., Air Force, CAPE, NCCA, etc.)
  - Government Analysts will no longer be able to upload documents to the CADE Library; documents will need to be submitted to the CADE or designated security group Librarian(s)
  - This feature enhances control of documents posted to the CADE site & avoid potential security issues
- Security group document metadata will be searchable from the CADE Library
  - Air Force has a designated page and direct access for users to search for Air Force only content
- Added ability to access cost libraries (Navy CCRL & JIAT Libraries within the CADE library using a link)
- Added ability to see other libraries from CADE Data & Analytics home page

CADE Library so what's in the library…

- Over 13K current and historical documents dating back to 1968 spanning terabytes of information
- Authoritative documents (ICE, CAIG, CCE, CARDs, DAB, AoAs etc.), general briefings, datasets, policy memos, conference materials etc. to support analysis
- Documents searchable by commodity, program and/or type to help analyst find data
- Companion libraries (Air Force Library, Navy CCRL, JIAT Library etc.) contain extensive amounts of data, data sets, and pertinent data to cost estimating community

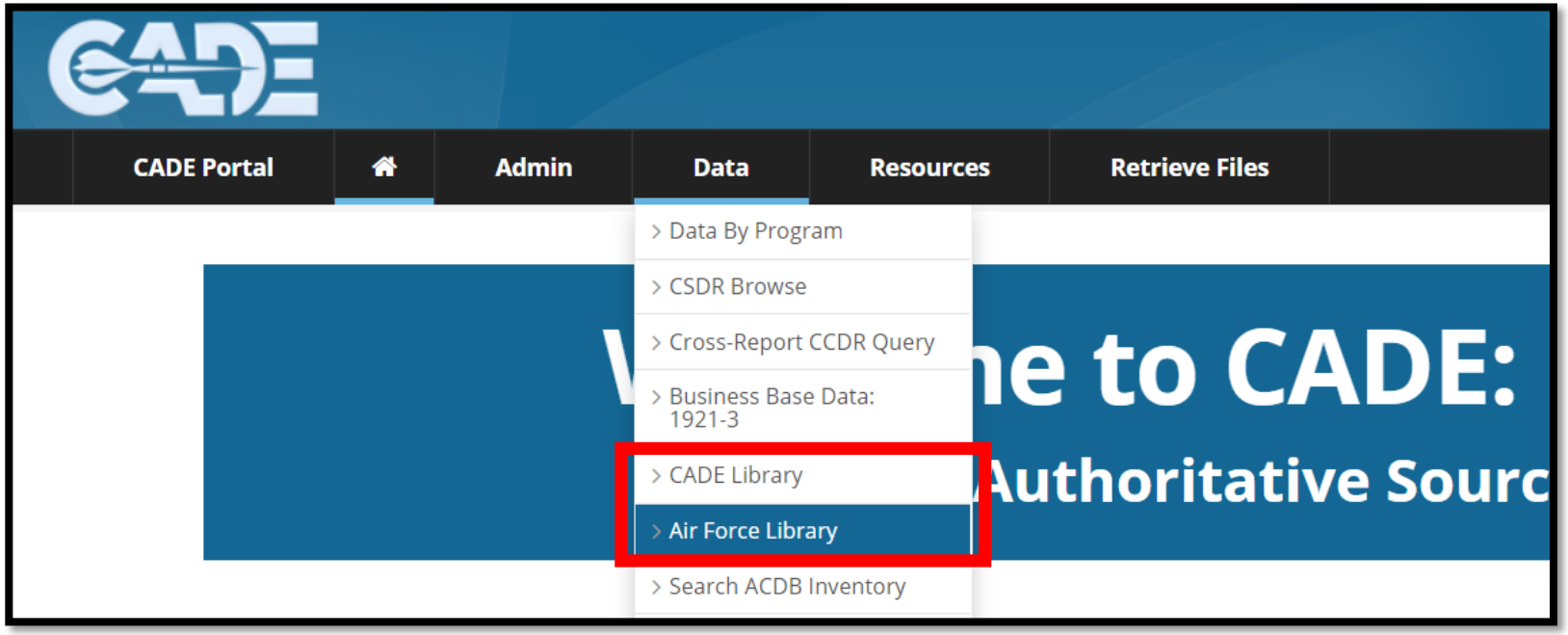
CADE D&A Landing page updates

On the landing page, users can access CADE and other cost libraries (Air Force, JIAT & Navy CCRL etc.) and other libraries (Aerospace FFDC, DTIC, Arroyo Center etc.)

Air Force Library content is accessible from the CADE Library or by selecting Air Force Library

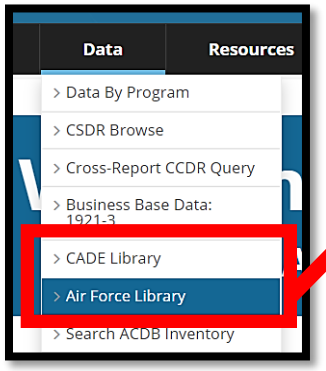
CADE Library Location

- Access to the CADE and Air Force Library in **Data and Analytics**
- In the menu, under **Data**

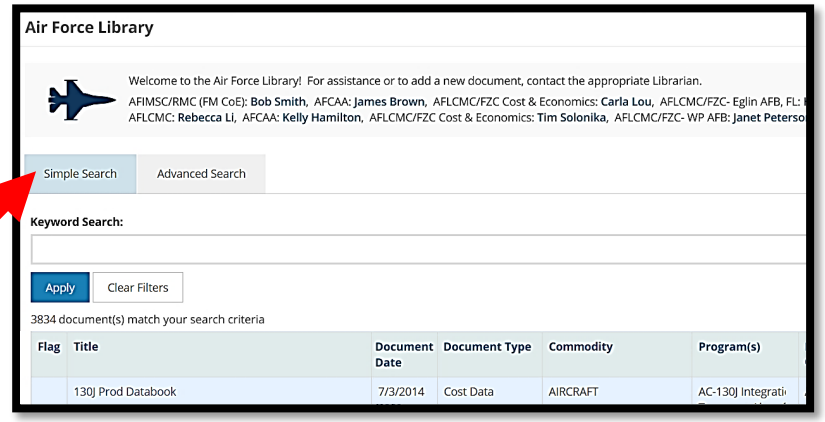


UI at a Glance

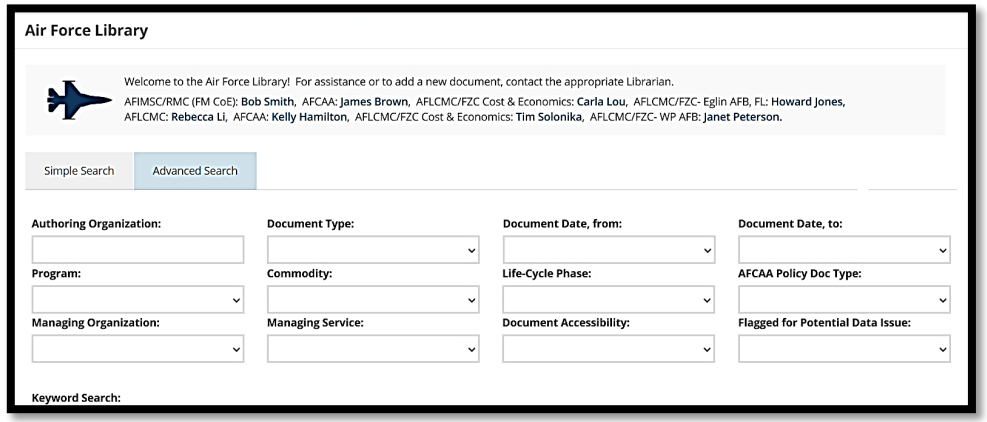
Two tabs for ALL users…



1. Simple Search (search documents by keyword)

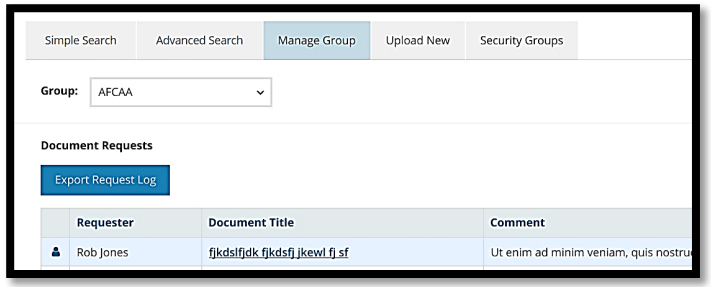


2. Advanced Search (filter by specific metadata)

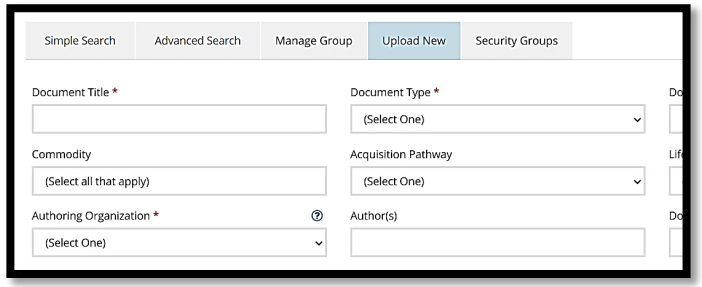


…plus three additional tabs for Librarians and Admins

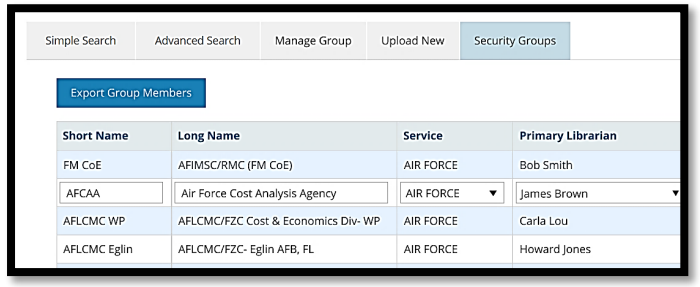
3. Manage Group (members & requests)



4. Upload New (add new documents)



5. Security Groups (assign librarians)



Functionality by role

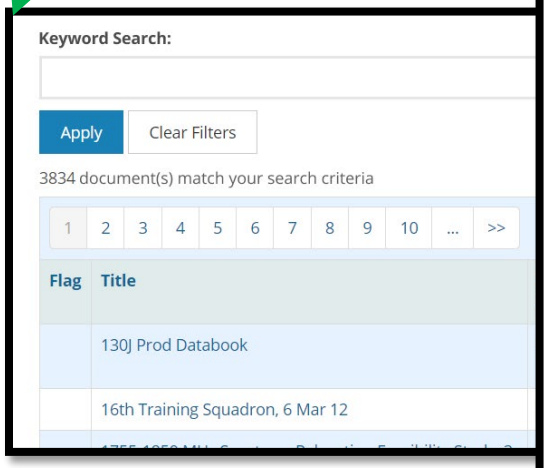
Functionality

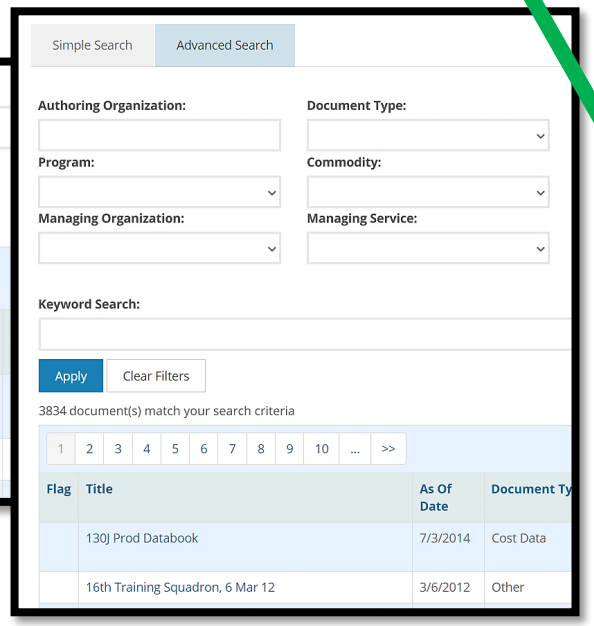
All Users can:

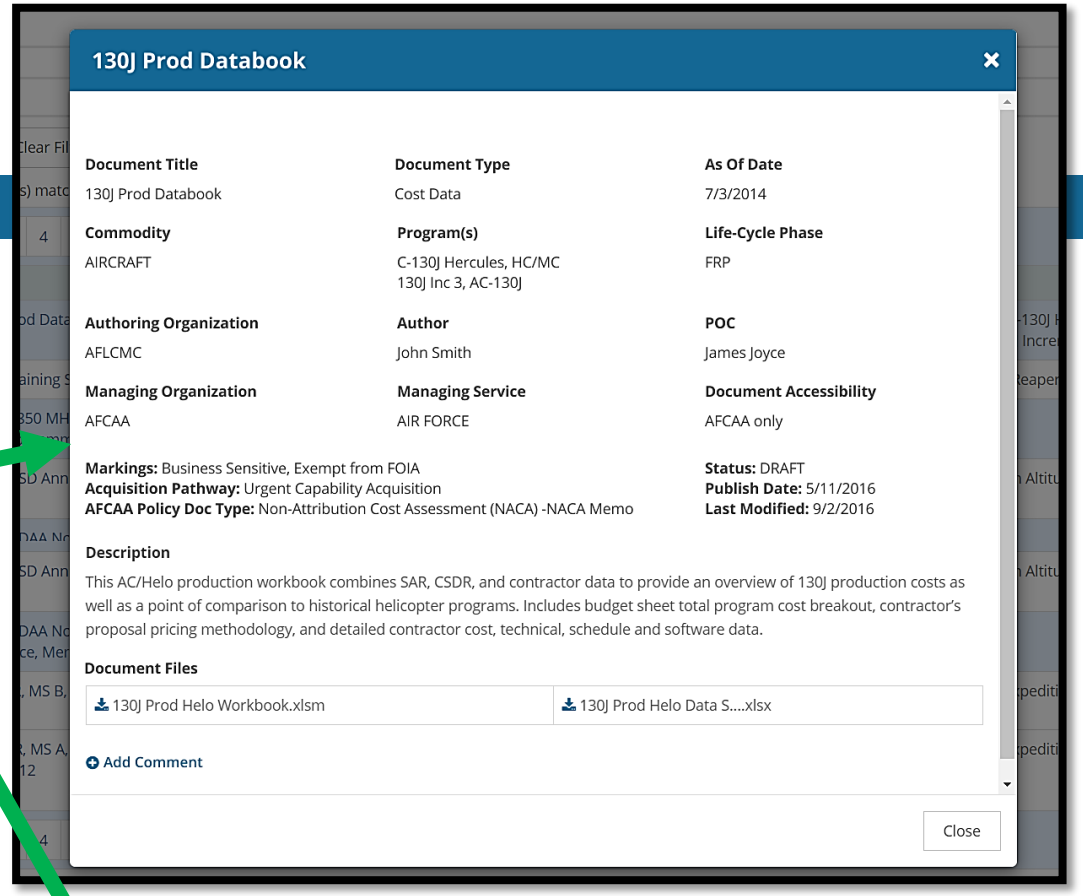
Search and **view** all documents

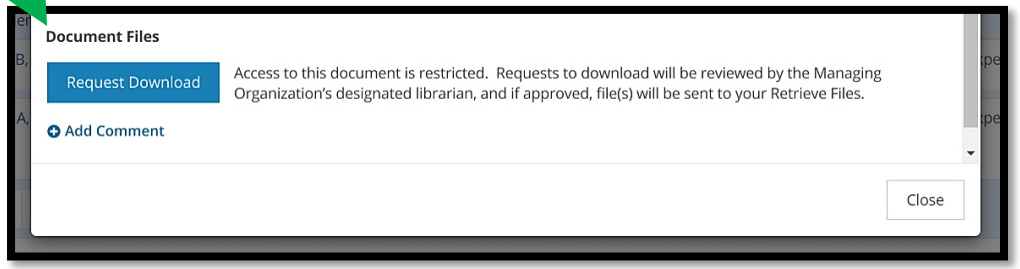
Download documents they have access to

Request to download restricted documents





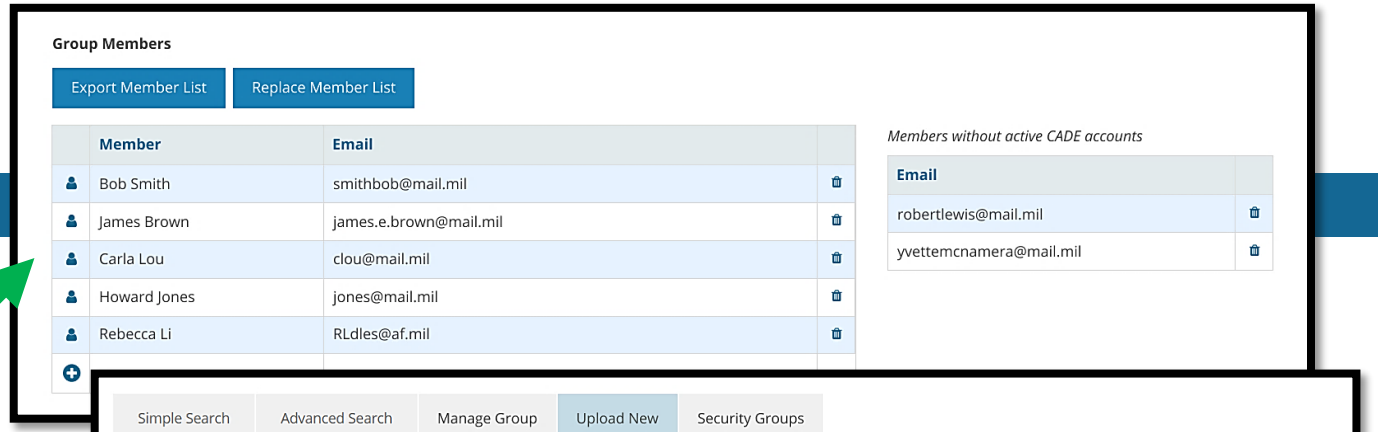


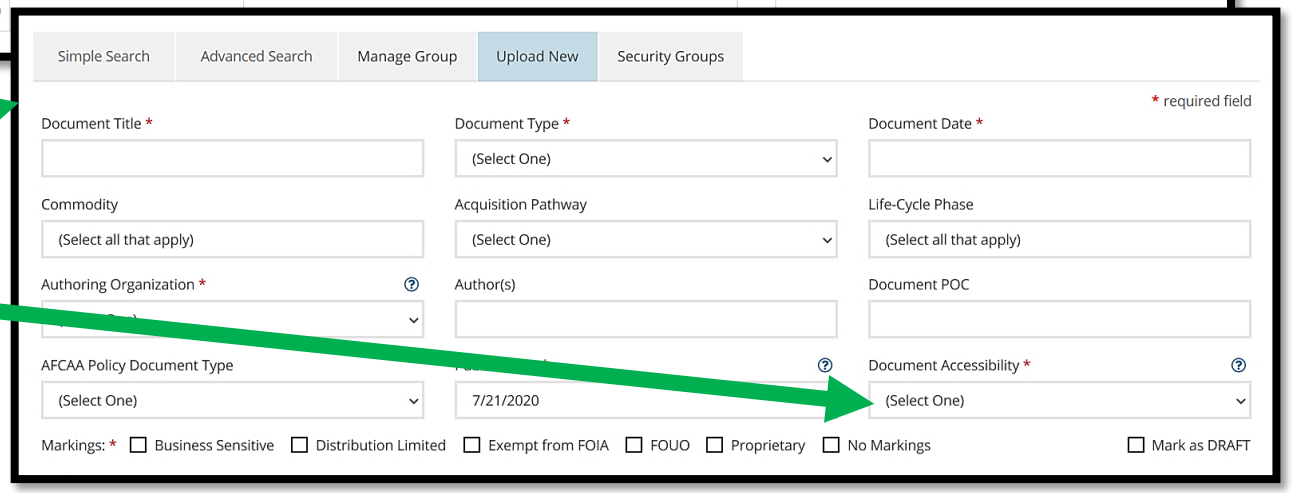


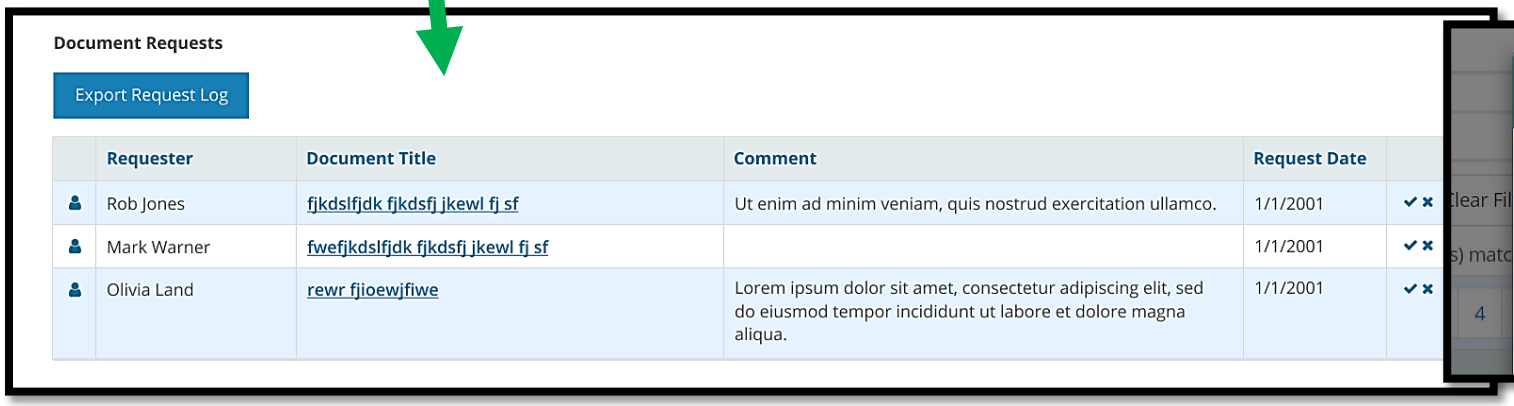
Functionality

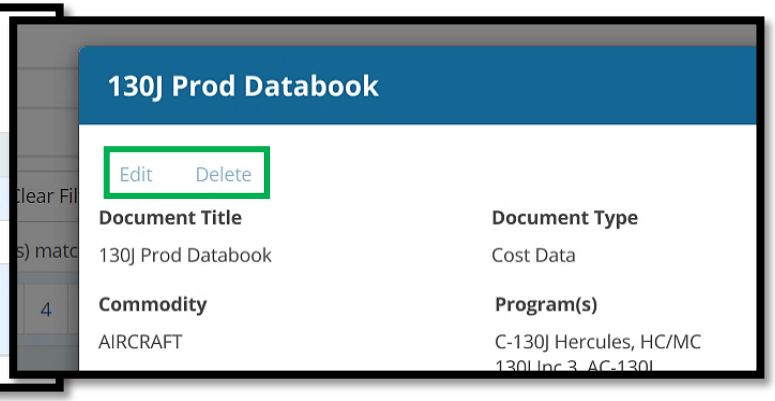
Librarians can:

- **Add/remove users** in their group (organization)
- **Add/edit/delete documents** for their group
- Set **security restrictions** for each document
- **Grant/reject requests** to download documents









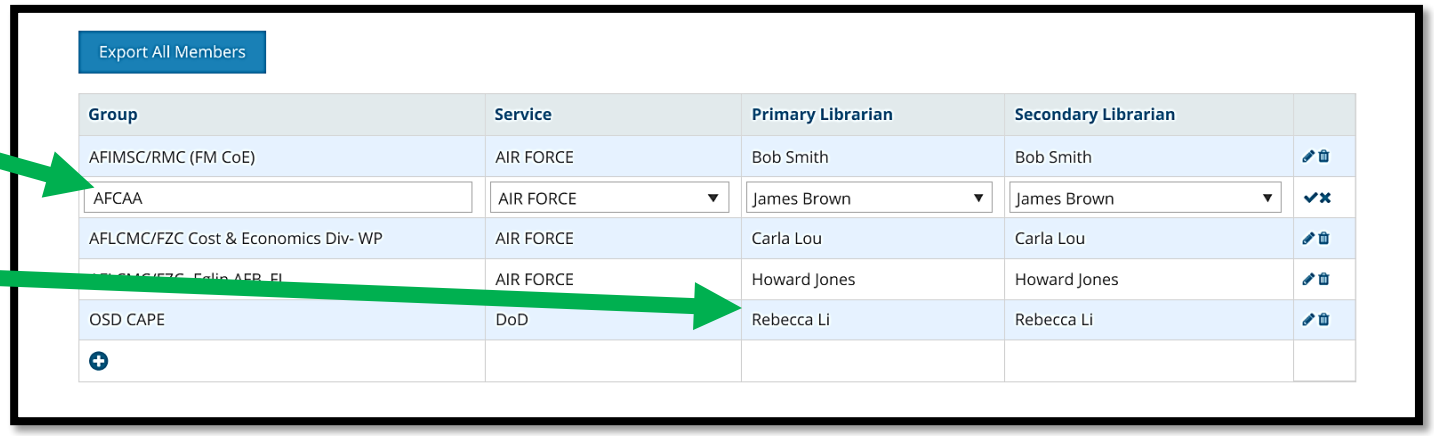
Functionality

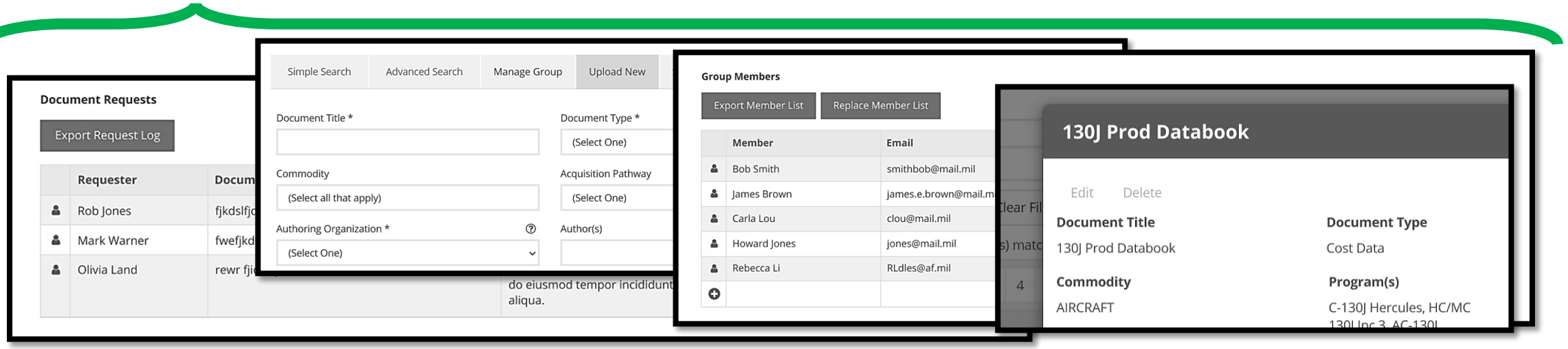
CADE Admins can:

Add/edit/remove **security groups** (organizations)

Assign Librarians for each group

Perform Librarian functions as assistance is needed





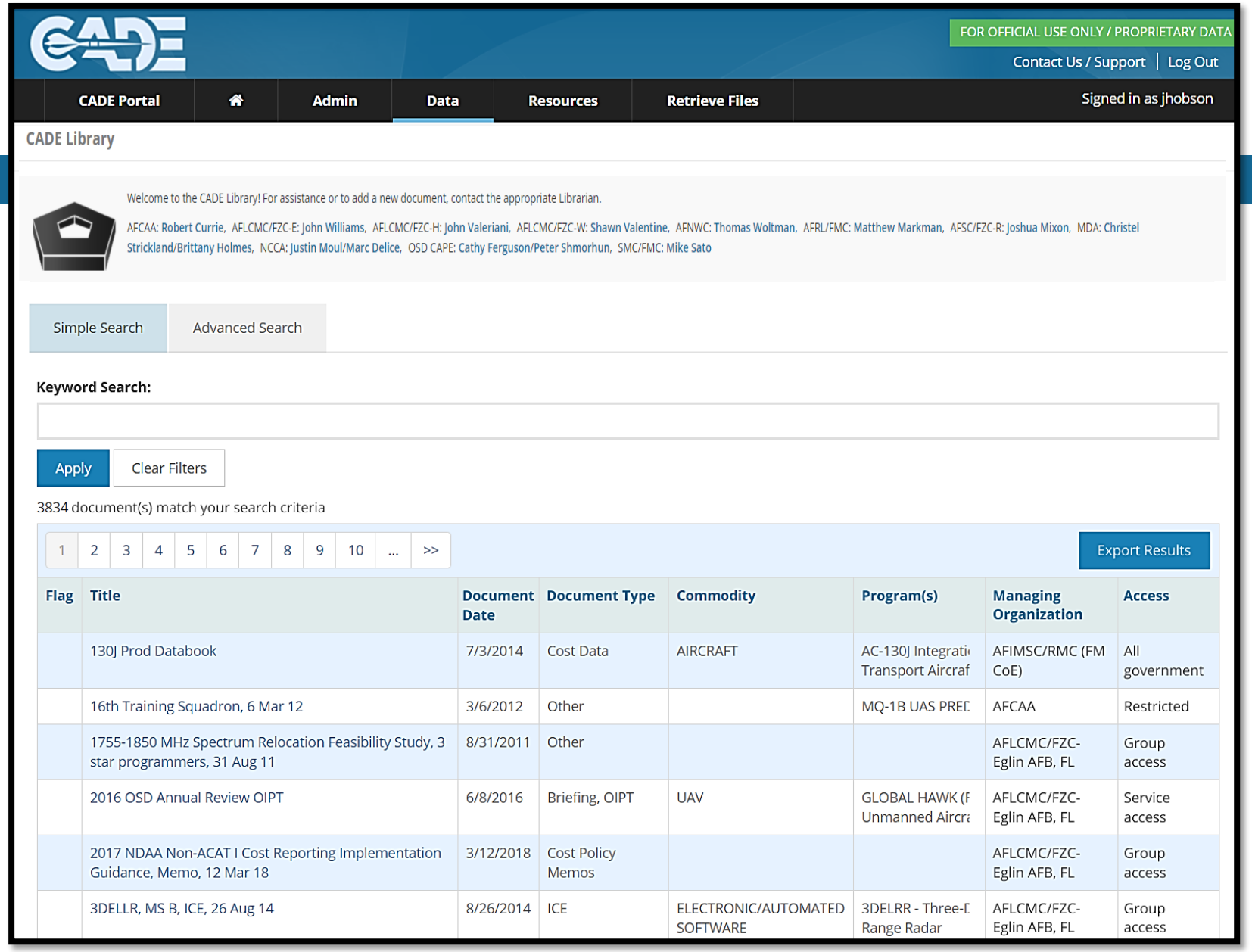
Searching / Viewing
Documents

Search

Tab 1

Simple Search

Keyword Search: looks through all metadata entered by the Librarian when the document is uploaded

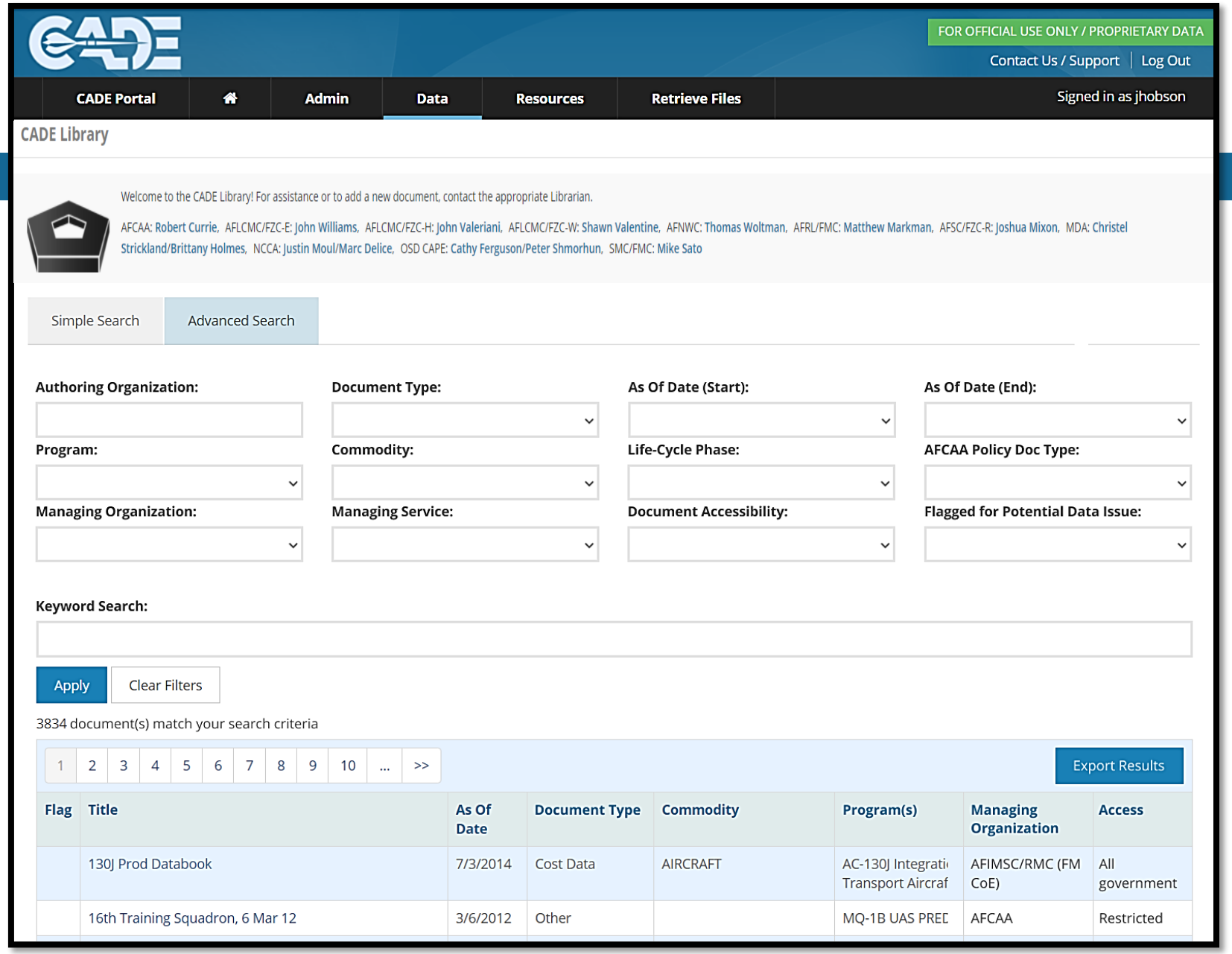


Search

Tab 2

Advanced Search

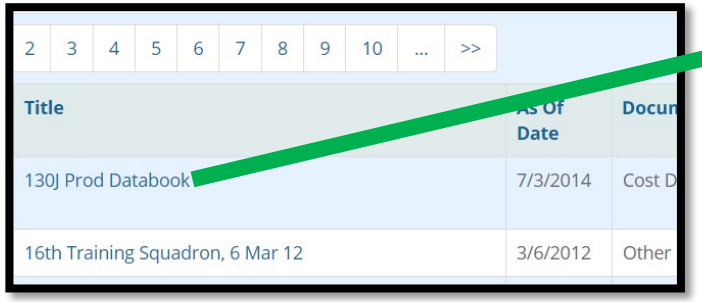
Allows analysts to use specific metadata filters AND/OR Keyword Search to narrow search results

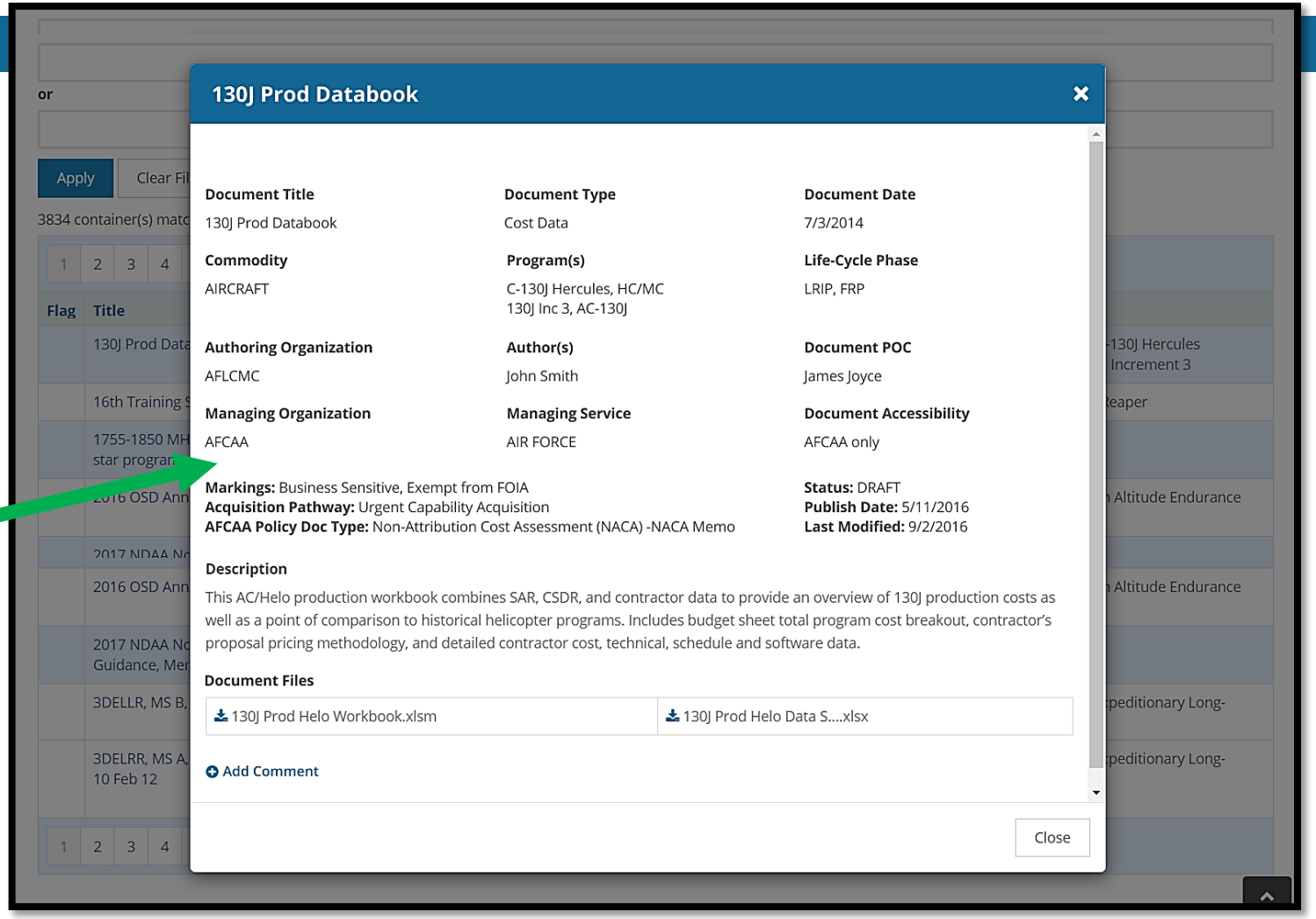


View/Download

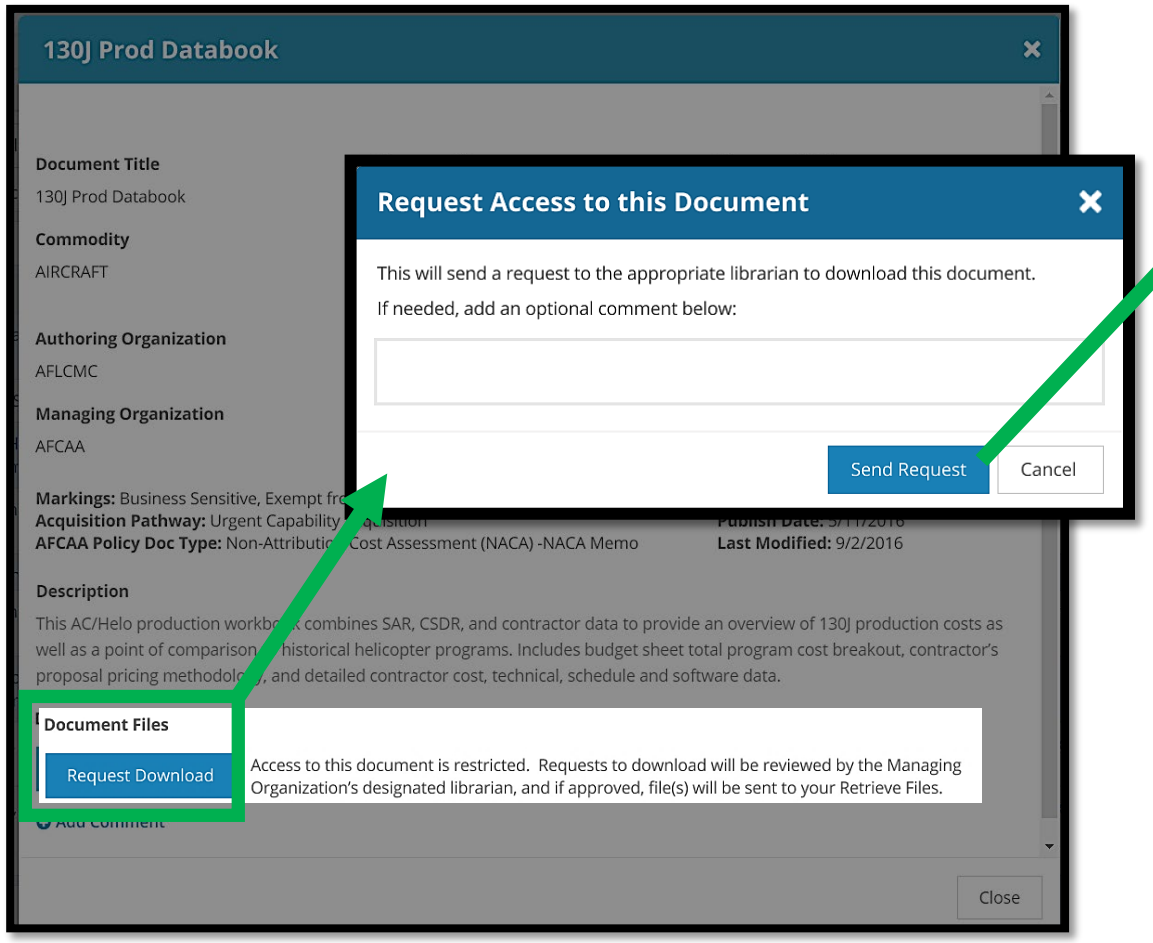
Document View

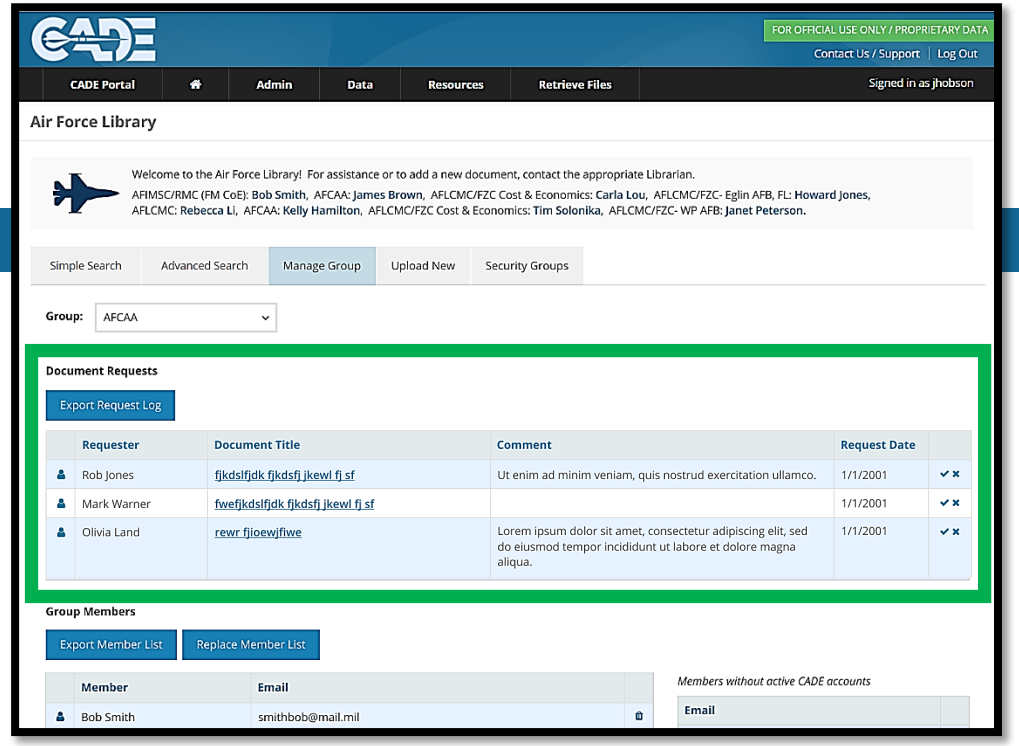
(User has access to the document)





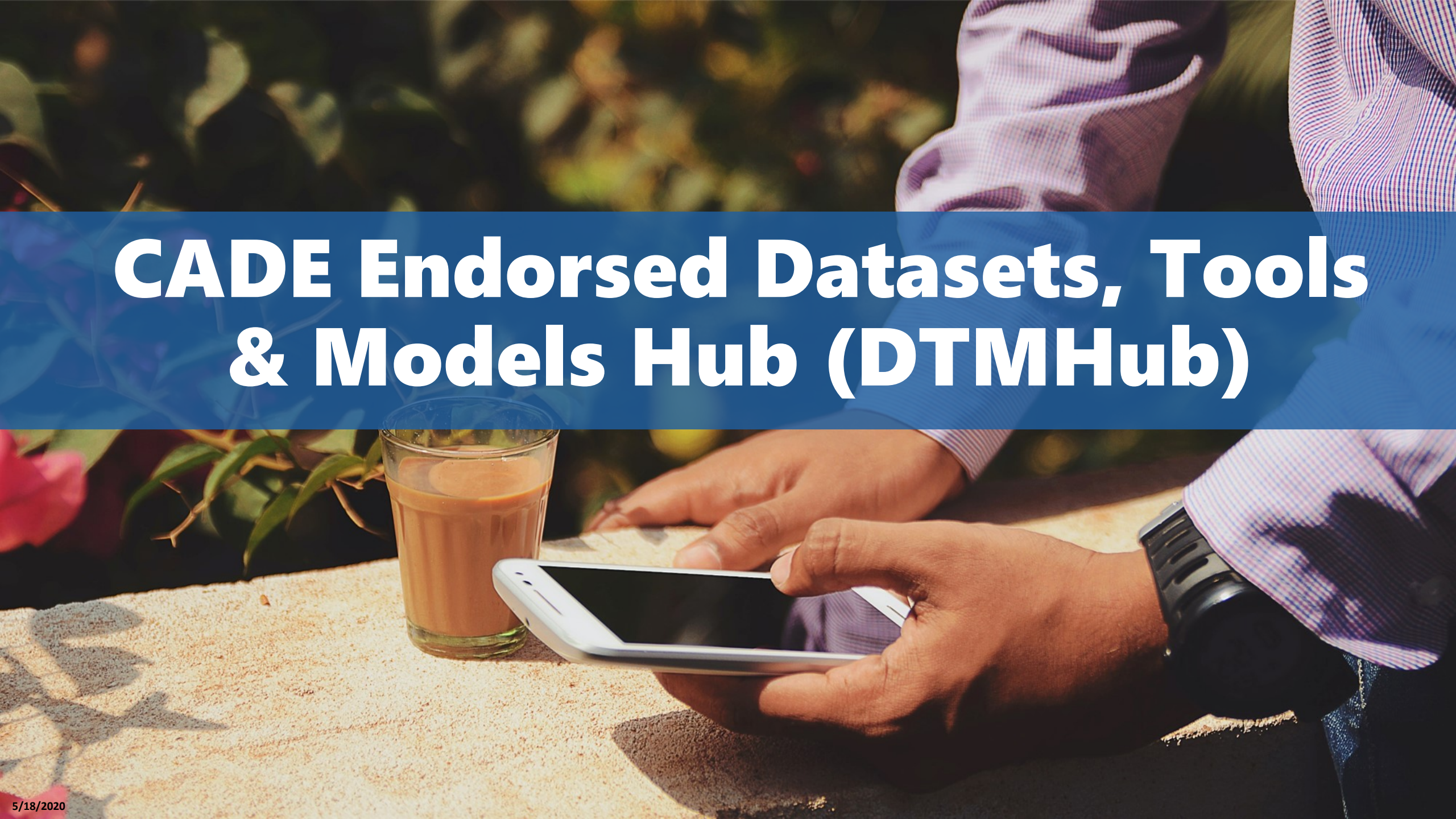
Requesting Access





1. User doesn't have access to document
2. User selects "Request Download" on a document that belongs to AFCAA.
3. The user may enter a comment if needed.
4. The AFCAA Librarian receives an email with the request, and it shows up in his/her Document Requests table.
5. The Librarian approves or rejects the request, triggering…
   a. An email notification either way, and
   b. If the request is accepted, the document file(s) are sent to the user's Retrieve Files

CADE Endorsed Datasets, Tools & Models Hub (DTMHub)



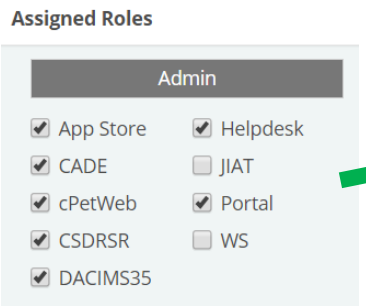
What is the Endorsed DTMHub

The Endorsed DTMHub allows Endorsing Organizations to share datasets, tools & models with the cost community

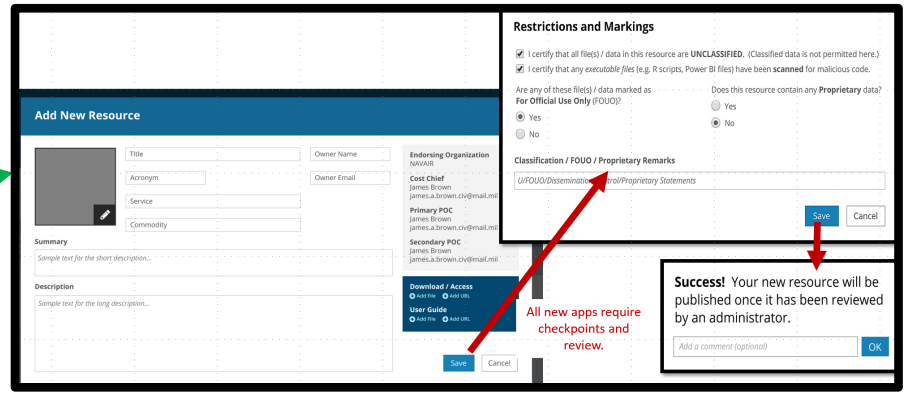
DTMHub Admin Functions At a Glance

Administrative Functions…

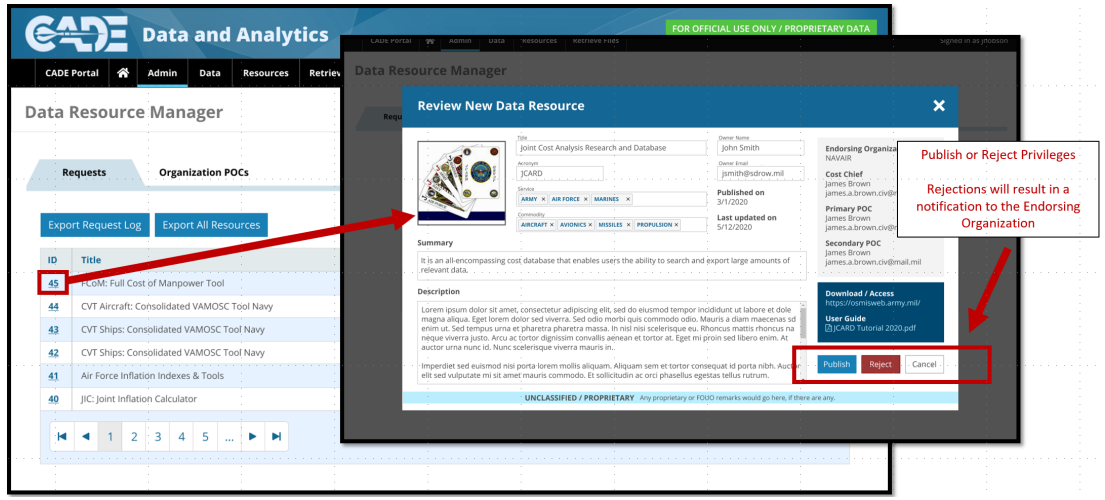
1. CADE Role Assignment



2. Endorsing Organization Add/Edit Items



3. CADE Admin Publish



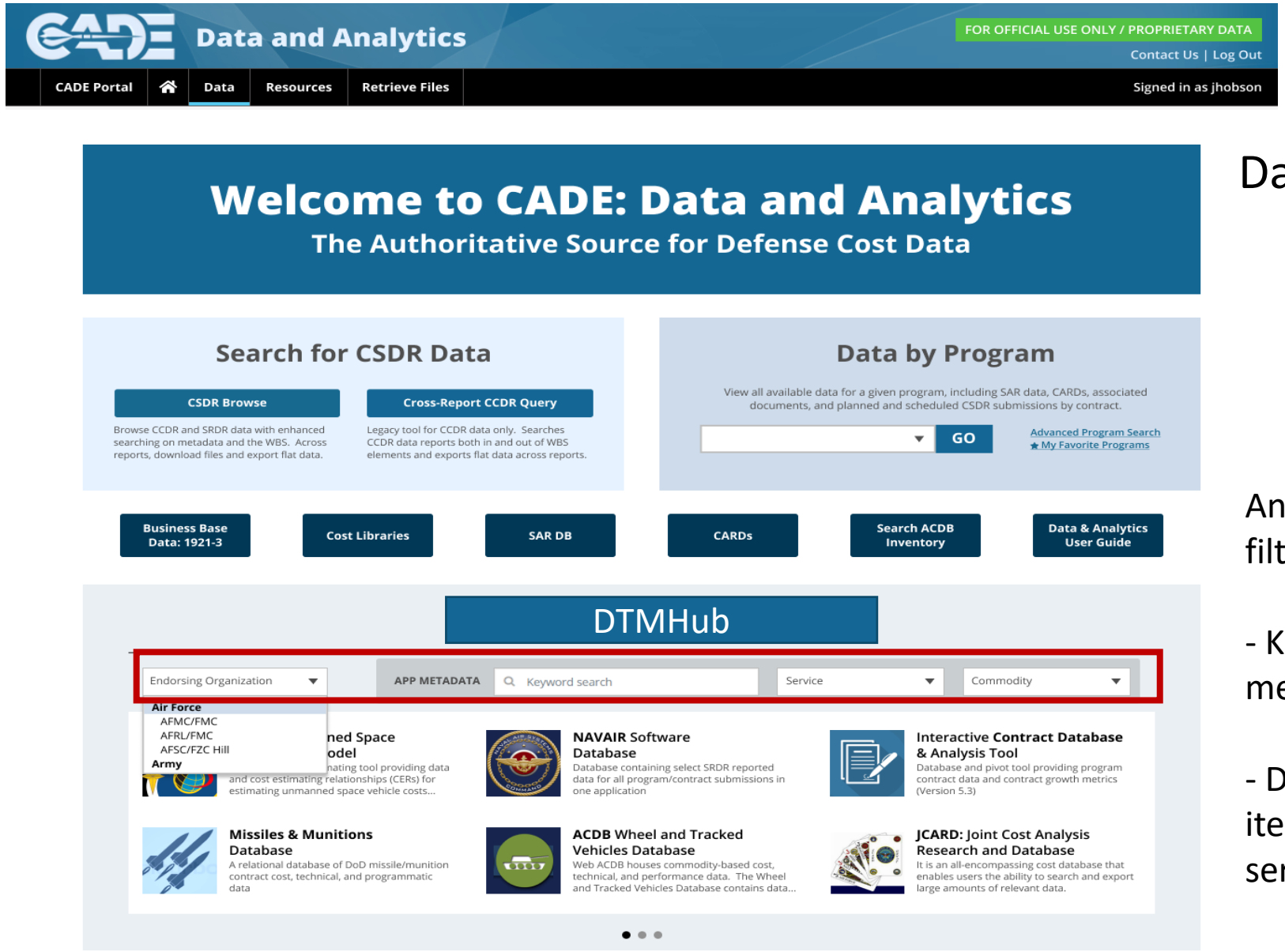
The Endorser is the Service Cost Chief/Director and holds the rank of GS-14/15 or SES

Responsible for approving datasets, tools and models posted to CADE for their respective organizations

Analysts Access

Functions for non-admin analyst users

Endorsed Datasets, Tools & Models Hub (DTMHub) Analyst View



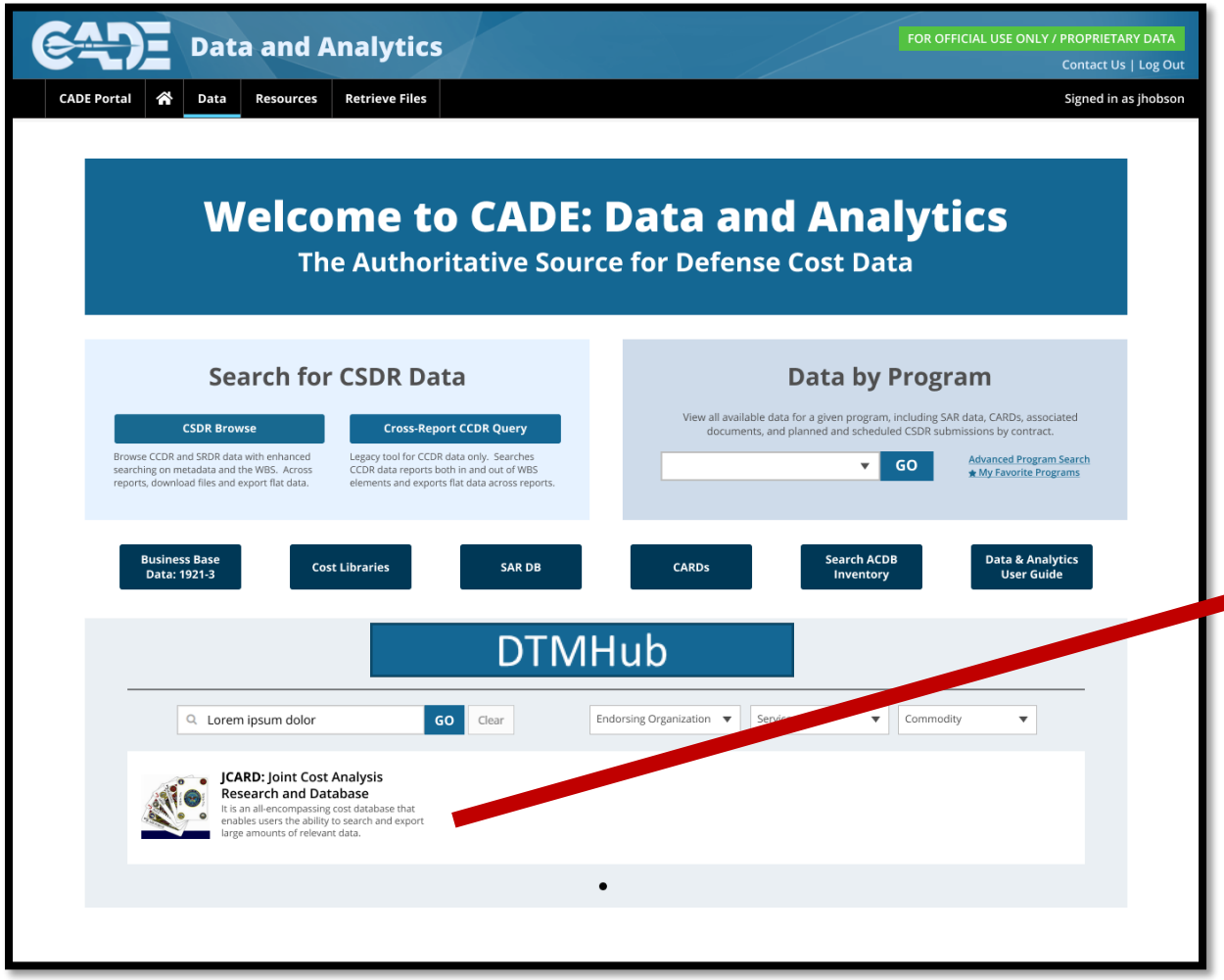
Data is accessible to Govt Analyst across the DoD to increase knowledge and data sharing

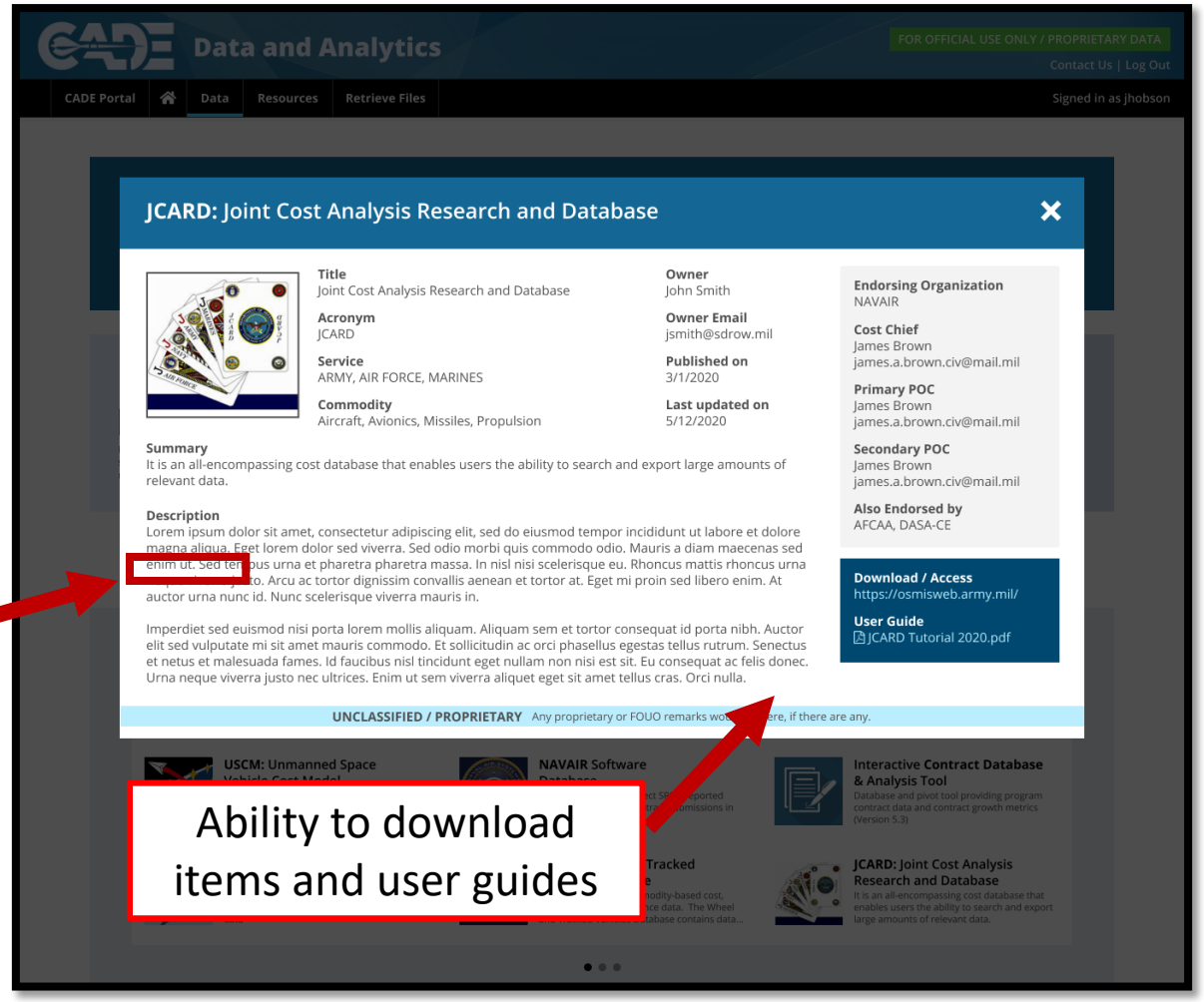
Analyst can utilize keyword or dropdown filters to find items

- Keyword search browses through all metadata fields entered by the Admin

- Dropdown Filters allows analyst to select items published for a specific organization, service and/or commodity

DTMHub: Access a specific app





Data & Analytics Landing Page: Non-Government Analyst View

Non-Govt Analyst will not see the DTMHub when entering Data & Analytics

SRDR Automation Activities

v4, 7/28/2020: Fixed some image issues caused by file compression

SRDR Automation Activities

- Rebuilt SRDR forms – **NOW AVAILABLE**, download new forms from the CADE Public site
  - Refactored SRDR Dev (3026-1), Mx (3026-2), and ERP (3026-3) all including Part 2
  - Support in cPET (integration with Plans, read/write Excel & XML, preliminary validation)
  - “Dimensional” Excel export (formatting data to support analysis)
- CSDR-SR workflow integration
  - Support submission/review for legacy and new SRDRs
  - For new SRDR formats, provide real-time format check and validation
  - Export to new Dimension Excel format
- CADE Data & Analytics Integration
  - SRDR integration into Browse/Search CSDR (legacy and new)
  - Analyst can bulk export SRDR Dimensional format from Data & Analytics

SRDR Support in cPET

CSDR Plan and SRDR Supplements → cPET Creates → Empty SRDR Template with Plan ID Links → Users Creates → Filled SRDR Template with Plan ID Links → cPET Creates → Read Validation, XML & Flattened Export

CSDR Plan SRDR Supplement

CSDR Plan Supplement - SRDR Development

Releases

ID	Name	Date
1	Space Vehicle Software Release 1	20150101
2	Space Vehicle Software Release 2	20150401
3	Space Vehicle Software Release 3	
4	Space Vehicle Software Release 4	
5	Space Vehicle Software Release 5	

CSCI's

ID	Name
C1	Space Vehicle Software CSCI 1
C2	Space Vehicle Software CSCI 2
C3	Space Vehicle Software CSCI 3
C4	Space Vehicle Software CSCI 4

Product Size Reporting Elements

Code	Name	Release ID	CSCI ID
1.2.1.1	Space Vehicle Software Release 1 CSCI 1	1	C1
1.2.1.2	Space Vehicle Software Release 1 CSCI 2	1	C2
1.2.1.3	Space Vehicle Software Release 1 CSCI 3	1	C3
1.2.2.1	Space Vehicle Software Release 2 CSCI 1	2	C1
1.2.2.2	Space Vehicle Software Release 2 CSCI 3	2	C3
1.2.3.1	Space Vehicle Software Release 3 CSCI 2	3	C2
1.2.3.2	Space Vehicle Software Release 3 CSCI 3	3	C3
1.2.4.1	Space Vehicle Software Release 4 CSCI 1	4	C1
1.2.4.2	Space Vehicle Software Release 4 CSCI 3	4	C3
1.2.4.3	Space Vehicle Software Release 4 CSCI 4	4	C4
1.2.5.1	Space Vehicle Software Release 5 CSCI 1	5	C1
1.2.5.2	Space Vehicle Software Release 5 CSCI 2	5	C2
1.2.5.3	Space Vehicle Software Release 5 CSCI 3	5	C3
1.2.5.4	Space Vehicle Software Release 5 CSCI 4	5	C4

Product Size Submissions

Number	Name	Release ID: 1 Included?	2 Included?	3 Included?	4 Included?	5 Included?
2	Preliminary Design Review (PDR)	x	x			
3	Critical Design Review (CDR)	x	x	x		
4	Initial Operational Capability (IOC)				x	
5	Final Review	x		x	x	x

PART 1 - SOFTWARE DEVELOPMENT TECHNICAL DATA, RELEASE-CSCI LEVEL

Release ID	Release Name	CSCI ID	CSCI Name
1	Space Vehicle Software Release 1	C1	Space Vehicle Software CSCI 1

WBS Element Code	WBS Element Name
1.2.1.1	Space Vehicle Software Release 1 CSCI 1

OUTSOURCED DEVELOPMENT ORGANIZATIONS

Name	Location	Primary? (check if Yes)	Comments

Common Heading | Part 1, Release Level (1) | Part 1, Release Level (2) | Part 1, Release Level (3) | Part 1, Release-CSCI Level (1) | Part 1, R ...

Dimensional Export Concept

- An SRDR file can include multiple forms/pages, e.g. Release(s), CSCI(s)
  - Large number of discrete data elements
  - Complex, large subsections and tables with data-dependent, one-to-many rows
- Flatten into organized export to facilitate analysis
  - Primary Tables (Dev)
    - Metadata: CADE (system) metadata cross-linked to report metadata
    - Release Level: Detailed release data and summary release effort/cost
    - CSCI Level: Detailed Release/CSCI data with summary effort/cost
    - Part 2: Detailed effort/cost by Release, CSCI, and Activity if available
  - Multiple one-to-many sub-tables: e.g. Contractor defined activities, outsourced organizations, software reuse components, etc.

CSDR-SR Workflow Integration

Step 1: Start Submission

Provide As-Of Date and POC information

Submission Info

Contract Summary

Contract Number: N0000-00-0002

Sub Contract Number:

Contractor Name	Rambo Systems
Contractor Division	Awesome Weapon Development
Prime/Sub	Sub
Contract Type	CPAF

Sub Contractor Name
Sub Contractor Division

Program

Program Name	Death Star Program (Testing Purposes)	Military Handbook	AIRCRAFT
Program URI		Weapon System Type	Aircraft
Program Manager	Luke Skywalker	Service	NAVY

Submission Event

Plan Number	A-09-E-C1-S1
Submission Event	P3I 4.5.0 Initial Report
Expected Files	SRDR Dev
Expected As Of Date	7/31/2012
Expected Submission Date	9/30/2012

Submission Details

As Of Date *

Status Initiated Late

Comment (Max 256 char)

Point of Contact

Name *
Bob

Phone *
5555555555

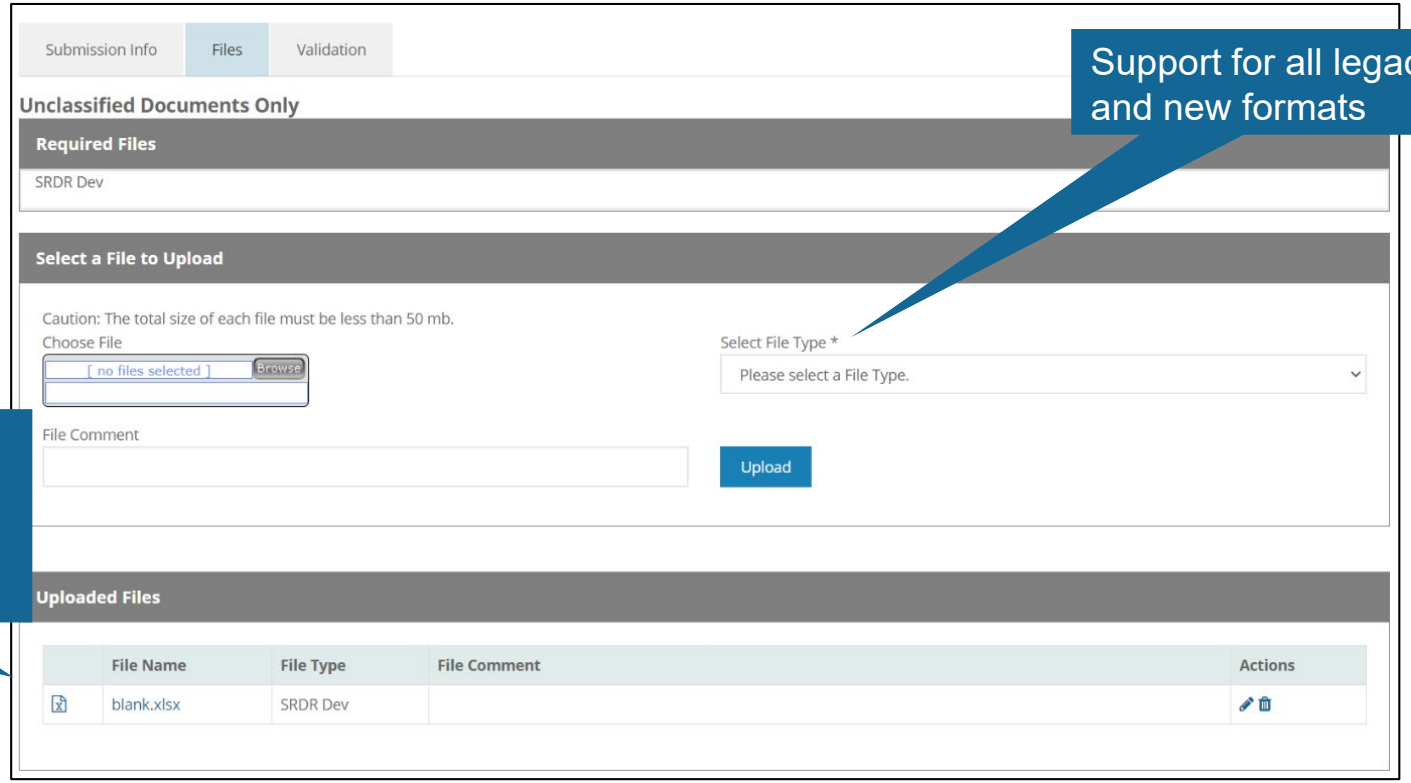
Fax

Email *
bsmith@rambo.com

Make Default POC

CSDR-SR Workflow Integration

Step 2: Upload Files

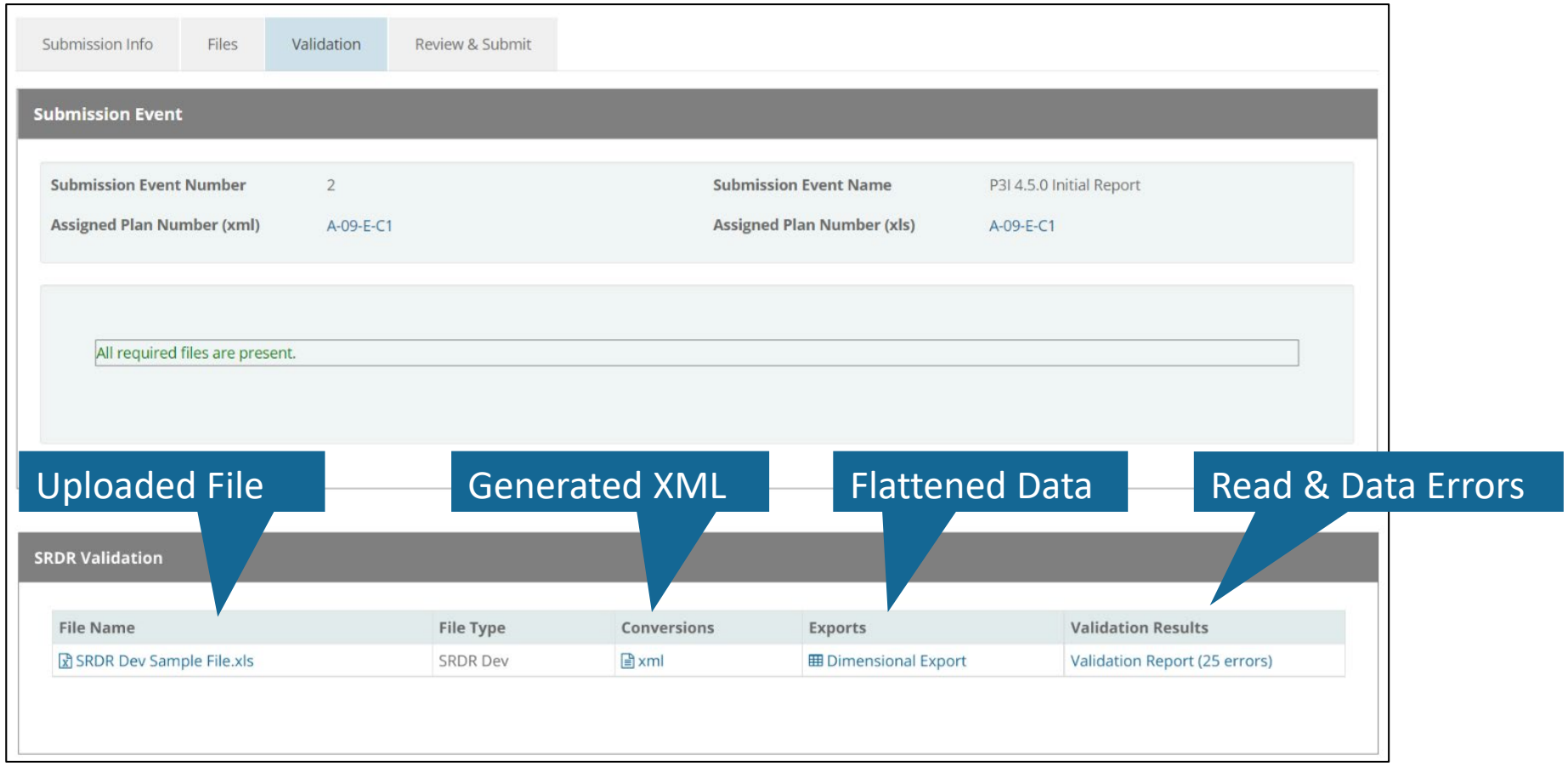


Support for all legacy and new formats

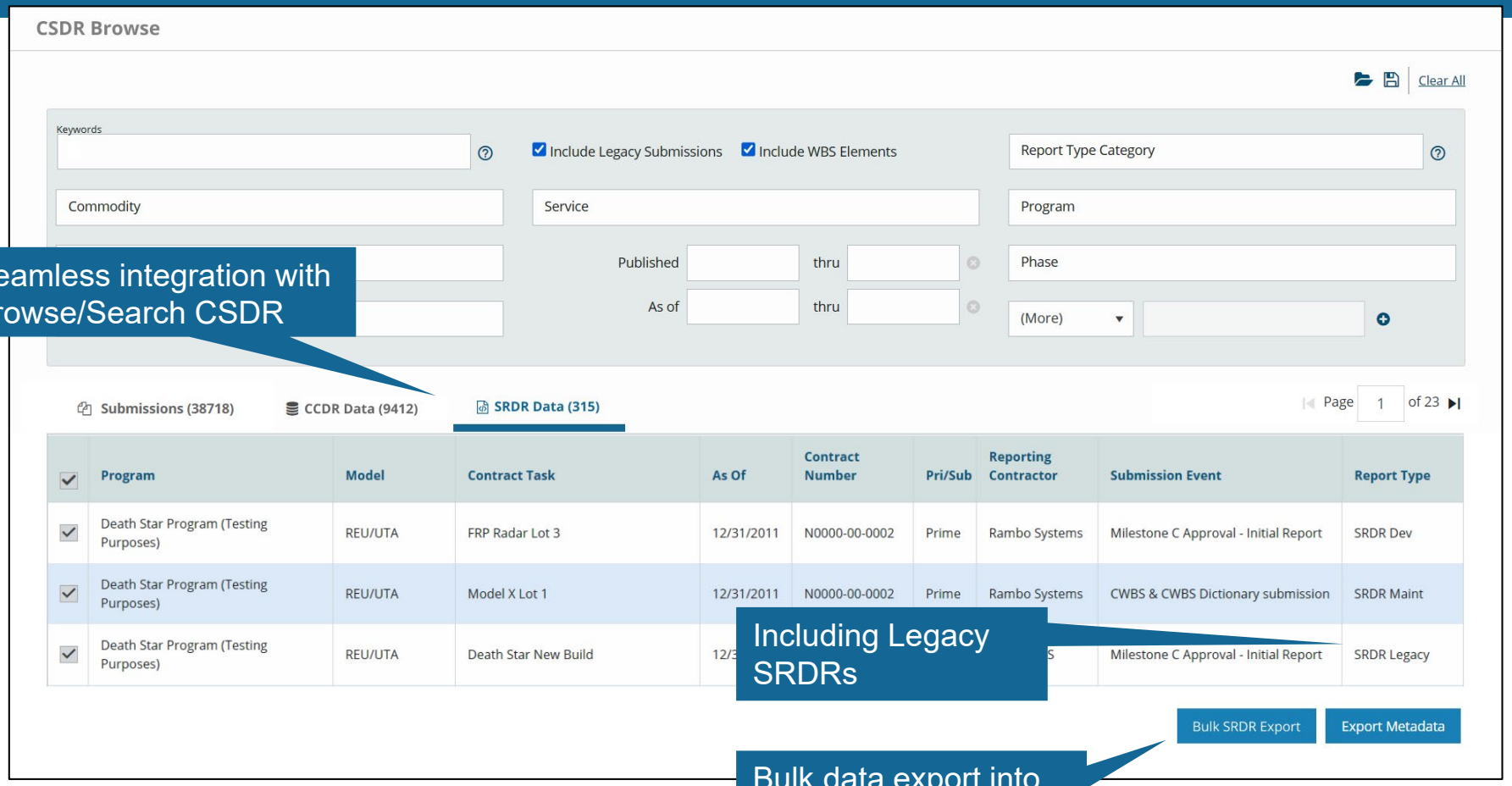
Displays uploaded files, types, and submitter comments

CSDR-SR Workflow Integration

Step 3: Validation



Data & Analytics Integration



Seamless integration with Browse/Search CSDR

Including Legacy SRDRs

Bulk data export into dimensional format