

Core System v4.0.0

Release Description Document (RDD)
Review

Thomas Huang

Core System Team Members:
Christian Alarcon, Qui Chau, Nga Chung, Mike Gangl

March 22, 2012



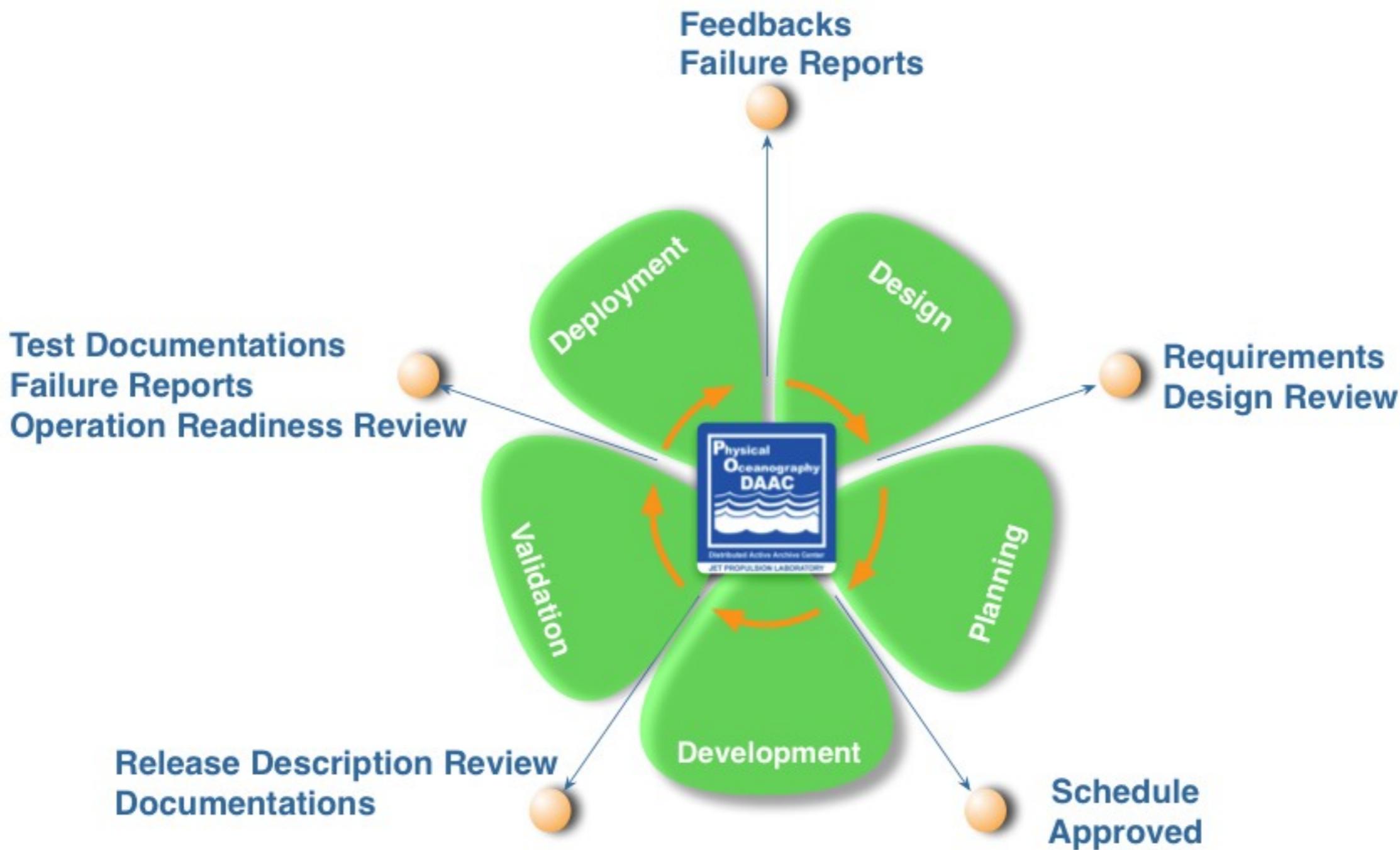
National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL



Our Process



Core System 4.0.0 Highlights



National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL



DMAS Federation

“Scale-Out” Job Management Architecture

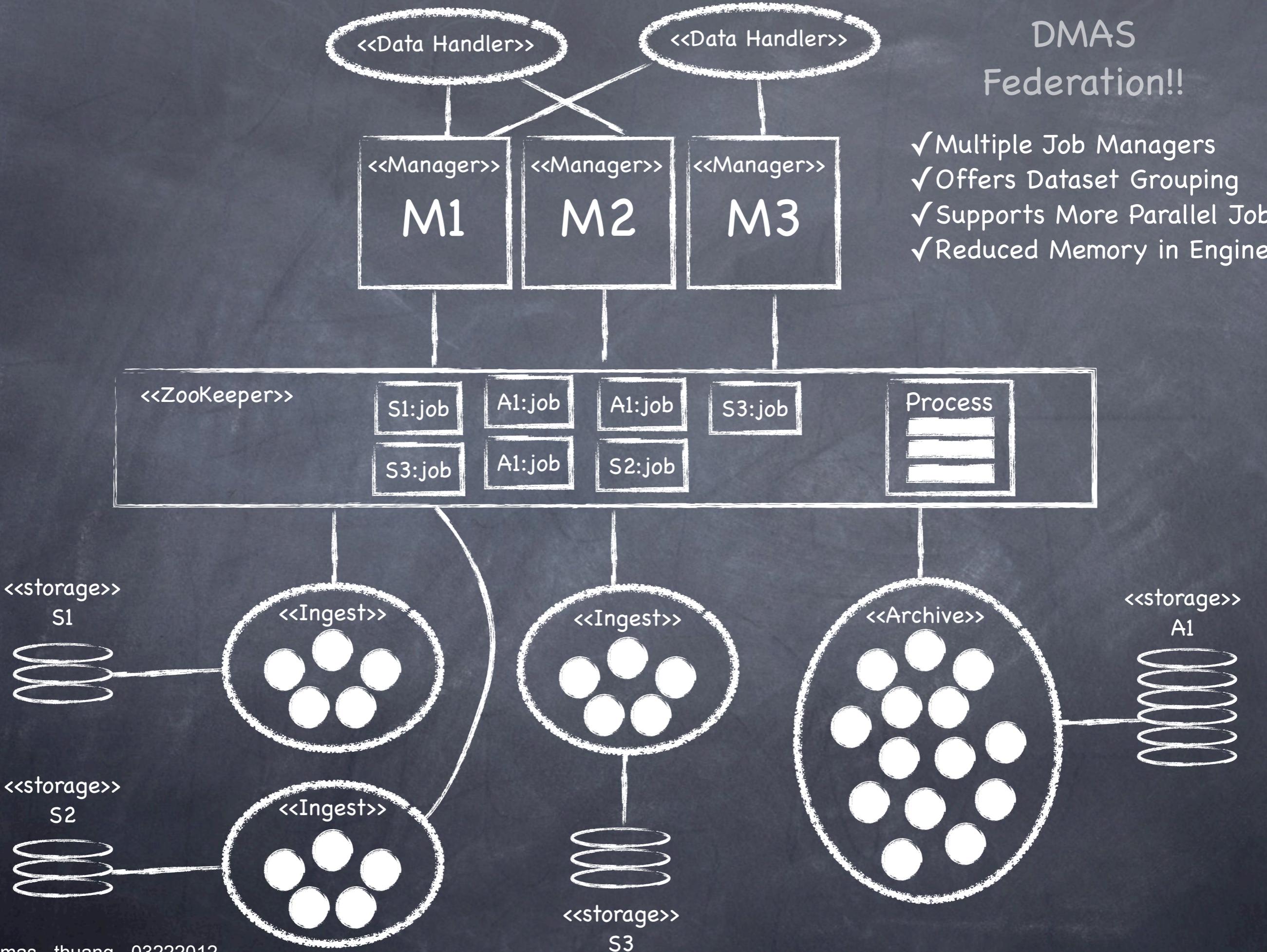
New Job Manager Can Be Added On-The-Fly

Simplify Job Assignment

Enables Dynamic Scaling of Ingest/Archive Pools

New Operator Console

DMAS Federation!!



- ✓ Multiple Job Managers
- ✓ Offers Dataset Grouping
- ✓ Supports More Parallel Jobs
- ✓ Reduced Memory in Engines



National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL



Apache ZooKeeper Web Service

Highly Reliable Distributed Coordination

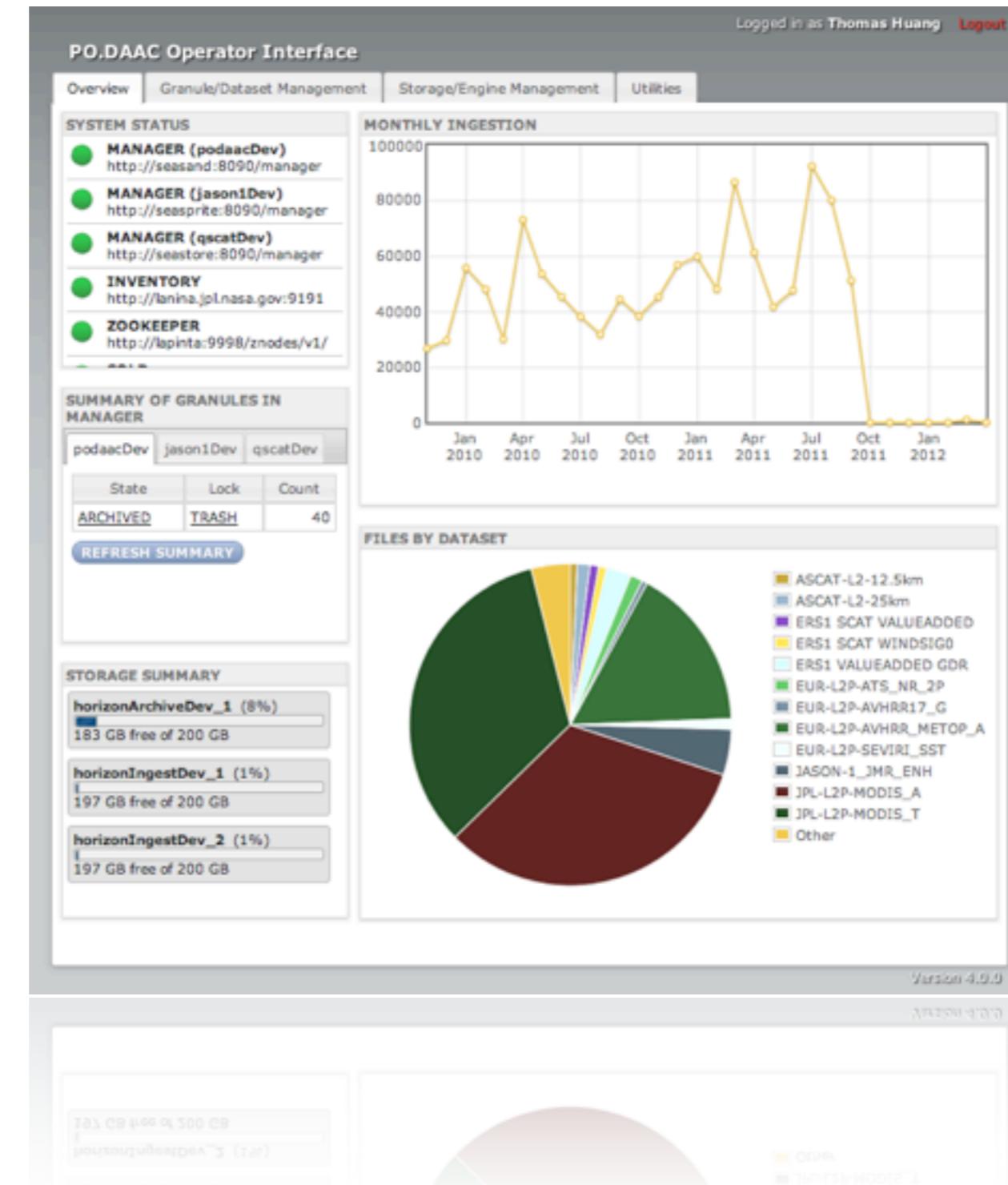
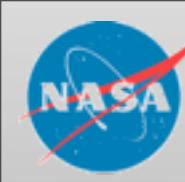
Maintains Configuration Information

Communicate With Infinite Number of Worker Nodes

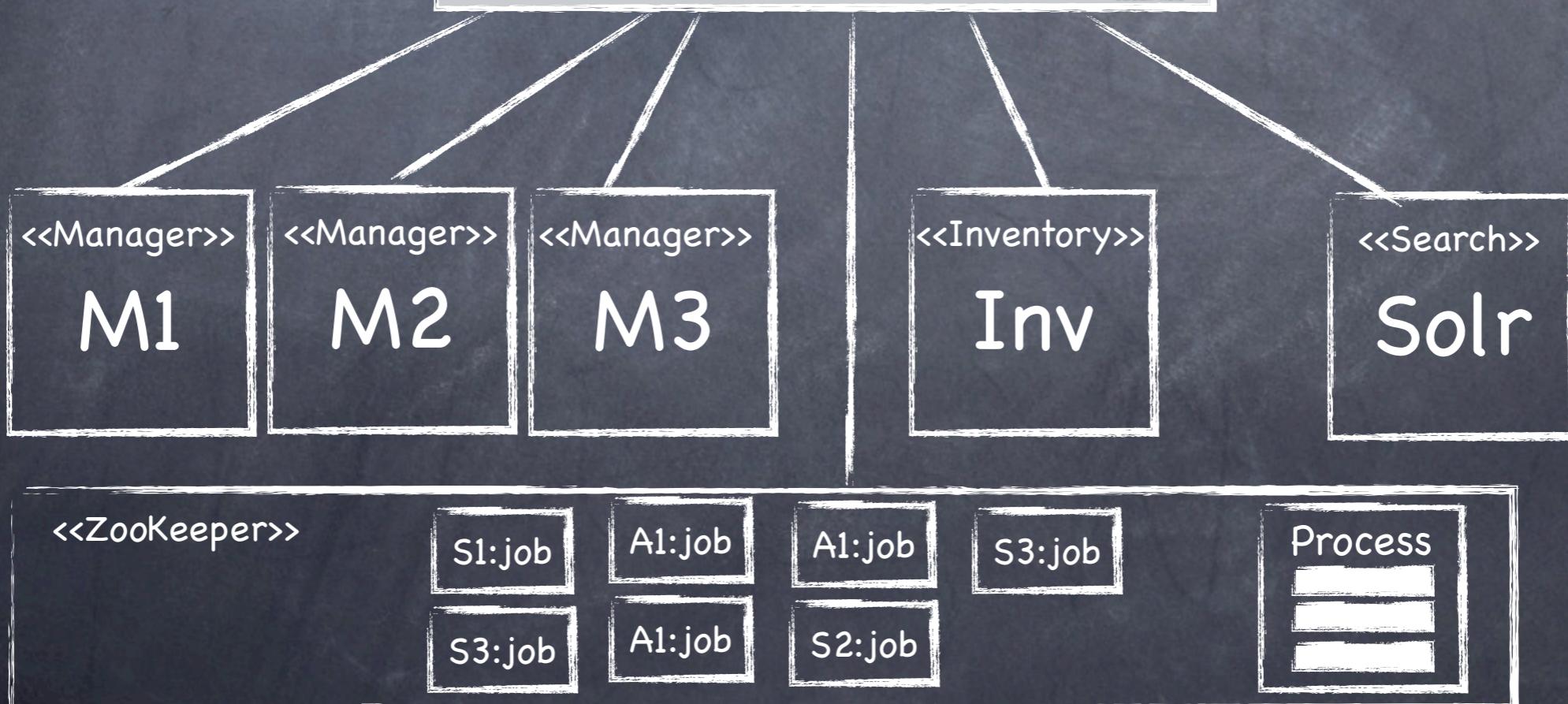
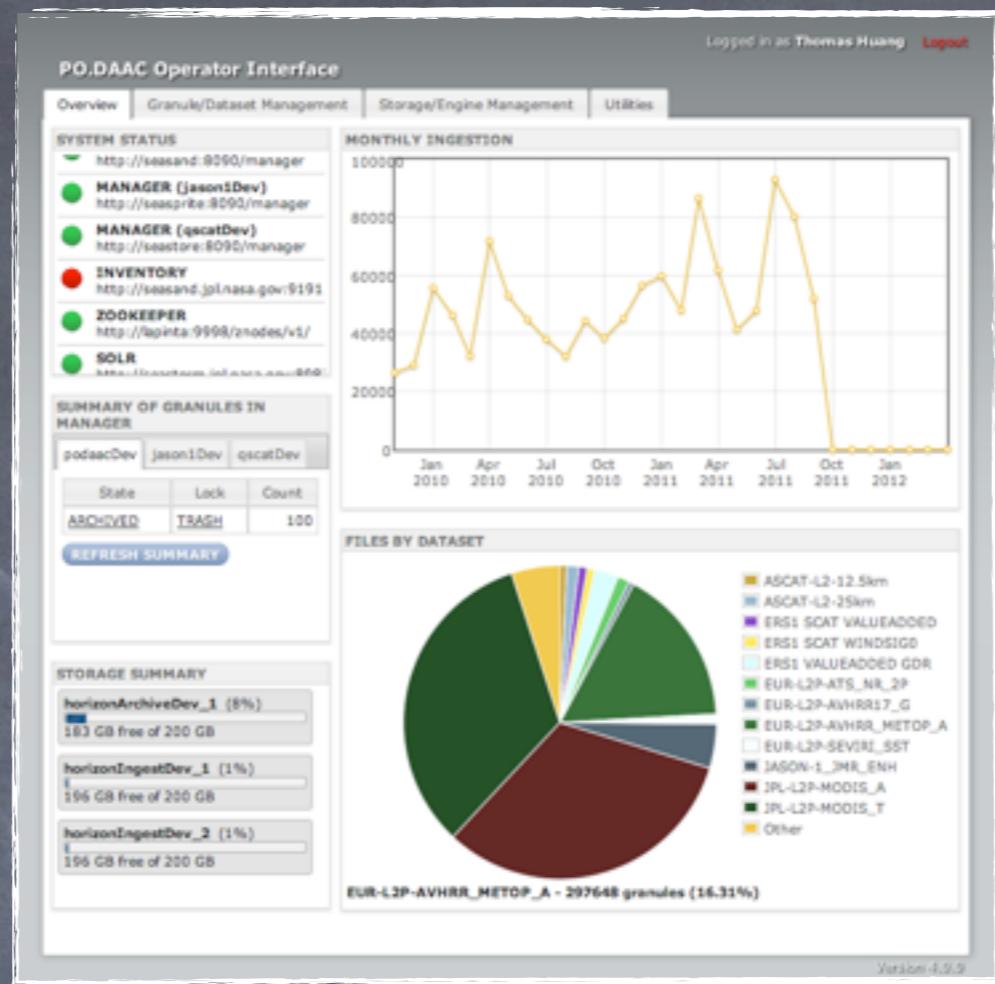
Provide Distributed Synchronization

Provide Group Services

Deploy on a Single Machine or Small Cluster



Meet The New Operator Console





National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL


The New Operator Console

PO-DAAC Operator Interface								Logout or Go Definition Manager	
Overview		Streams/Dataset Management		Storage/Engine Management		Users Management			
selectedOne		selectedOne		selectedOne		selectedOne			
AVAILABLE STATUS (TODAY OR 8HRS)									
#	Name	Current State	Current Ls Status	Created	Last Update	Assigned To	Contributor	Notes	
5008	sa_00_XXXXX_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5007	sa_00_XXXXX_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5006	sa_00_XXXXX_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5005	sa_00_XXXXX_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5004	sa_00_XXXXX_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5003	sa_00_XXXXX_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5002	sa_00_450001_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5001	sa_00_200001_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5000	sa_00_000000_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5009	sa_00_www_hanx_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
5010	sa_00_www_hanx_00_20000100ARCHIVED	Ready	00000000-01-01 00000000-01-01 10000000-01-01 100	04/03/2013 07:47:07	04/03/2013 07:47:07	admin	admin		
1/18 - 1/2000 - 1/2000		Page 1 / 1 of 1						View 1 / 1 of 200	
PRODUCT MANAGEMENT									
#	Name								
50	SACT0004								
51	SACT0005								
52	SACT0006								
53	SACT0007								
54	SACT0008								
55	SACT0009								
56	SACT0010								
57	SACT0011								
58	SACT0012								
59	SACT0013								
60	SACT0014								
61	SACT0015								
62	SACT0016								
63	SACT0017								
64	SACT0018								
65	SACT0019								
66	SACT0020								
67	SACT0021								
68	SACT0022								
69	SACT0023								
70	SACT0024								
71	SACT0025								
72	SACT0026								
73	SACT0027								
74	SACT0028								
75	SACT0029								
76	SACT0030								
77	SACT0031								
78	SACT0032								
79	SACT0033								
80	SACT0034								
81	SACT0035								
82	SACT0036								
83	SACT0037								
84	SACT0038								
85	SACT0039								
86	SACT0040								
87	SACT0041								
88	SACT0042								
89	SACT0043								
90	SACT0044								
91	SACT0045								
92	SACT0046								
93	SACT0047								
94	SACT0048								
95	SACT0049								
96	SACT0050								
97	SACT0051								
98	SACT0052								
99	SACT0053								
100	SACT0054								
101	SACT0055								
102	SACT0056								
103	SACT0057								
104	SACT0058								
105	SACT0059								
106	SACT0060								
107	SACT0061								
108	SACT0062								
109	SACT0063								
110	SACT0064								
111	SACT0065								
112	SACT0066								
113	SACT0067								
114	SACT0068								
115	SACT0069								
116	SACT0070								
117	SACT0071								
118	SACT0072								
119	SACT0073								
120	SACT0074								
121	SACT0075								
122	SACT0076								
123	SACT0077								
124	SACT0078								
125	SACT0079								
126	SACT0080								
127</									

PO.DAAC Operator Interface

Logged in as Christian Alancon - Logout

[Overview](#) [Granule/Dataset Management](#) [Storage/Engine Management](#) [Users Management](#)

STORAGE SUMMARY

- horizonArchiveDev_1 (7%)
164 GB free of 200 GB
- horizonIngestDev_1 (1%)
197 GB free of 200 GB
- horizonIngestDev_2 (1%)
197 GB free of 200 GB

MONTHLY INGESTION

Date	Ingestion (approx.)
Jan 2010	25,000
Feb 2010	30,000
Mar 2010	55,000
Apr 2010	70,000
May 2010	50,000
Jun 2010	40,000
Jul 2010	35,000
Aug 2010	30,000
Sep 2010	35,000
Oct 2010	30,000
Nov 2010	40,000
Dec 2010	50,000
Jan 2011	55,000
Feb 2011	50,000
Mar 2011	70,000
Apr 2011	60,000
May 2011	40,000
Jun 2011	45,000
Jul 2011	40,000
Aug 2011	45,000
Sep 2011	40,000
Oct 2011	10,000
Nov 2011	5,000
Dec 2011	2,000
Jan 2012	1,000

SUMMARY OF GRANULES IN MANAGER

podaacDev	jason1Dev	escatDev
State	Lock	Count
ARCHIVED	TRASH	56
ARCHIVED	DELETE	1
ARCHIVED	PENDING_RESERVED	2
ASSIGNED	ARCHIVE	1

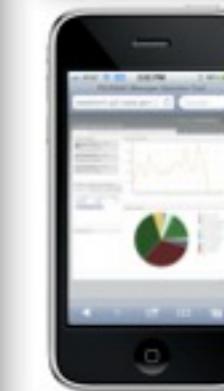
[REFRESH SUMMARY](#)

SYSTEM STATUS

FILES BY DATASET

Dataset	Percentage
ASCAT-L2-12.5km	~35%
ASCAT-L2-25km	~15%
ER51 SCAT VALUEADDED	~2%
ER51 SCAT WINDSIG0	~1%
ER51 VALUEADDED_GDR	~2%
EUR-L2P-AT5_NR_3P	~3%
EUR-L2P-AVHRR17_G	~5%
EUR-L2P-AVHRR_MEOP_A	~10%
EUR-L2P-SEVIRI_SST	~2%
JASON-1_IMR_ENH	~25%
JPL-L2P-MODIS_A	~1%
JPL-L2P-MODIS_T	~1%
Other	<1%

PO.DAAC Operator Interface		Support in an Operations Manager	
Dashboard	Granule/Dataset Management	Storage/Engine Management	Users Management
STORAGE - herculesstorageflex_3	VIEW/EDIT DETAILS	STORAGE - herculesstorageflex_3	VIEW/EDIT DETAILS
SUMMARY		SUMMARY	
153 GB free of 200 GB (8% used)		156 GB free of 200 GB (8% used)	
ENGINES		ENGINES	
● ssospire_archive_3 Status: ONLINE Last Updated: Thu Mar 01 2012 14:37:34	■ ■	● ssostore_input_3 Status: ONLINE Last Updated: Thu Mar 01 2012 14:33:19	■ ■
● ssospire_archive_3 Status: ONLINE Last Updated: Fri Jan 18 2010 1:47:17	■ ■		
● ssospire_archive_3 Status: ONLINE Last Updated: Thu Mar 01 2012 18:26:40	■ ■		
STORAGE - herculesstorageflex_3	VIEW/EDIT DETAILS	STORAGE - herculesstorageflex_3	VIEW/EDIT DETAILS
SUMMARY		SUMMARY	
156 GB free of 200 GB (8% used)		156 GB free of 200 GB (8% used)	
ENGINES		ENGINES	
● ssostore_input_3 Status: ONLINE Last Updated: Thu Mar 08 2012 14:41:35	■ ■		
● ssostore_input_3 Status: ONLINE Last Updated: Thu Mar 01 2012 18:25:49	■ ■		



dmas - thuang - 03222012

Thursday, March 22, 2012



National Aeronautics and
Space Administration

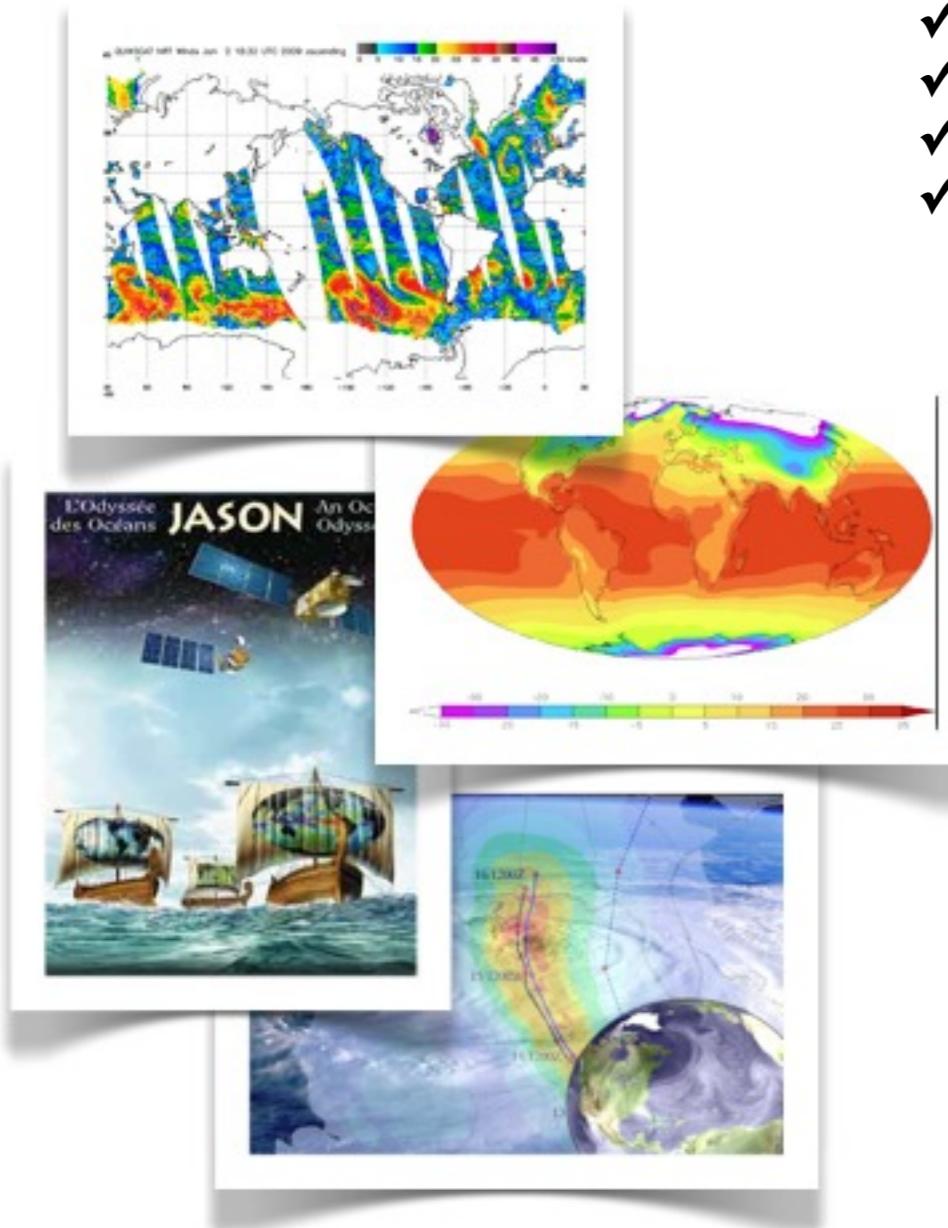
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL



New Data Handlers

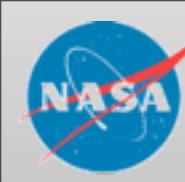
- ✓ Jason-1
- ✓ Cross-Calibrated Multi-Platform (CCMP)
- ✓ Program for Climate Model Diagnosis and Intercomparison (PCMDI)
- ✓ WindSat



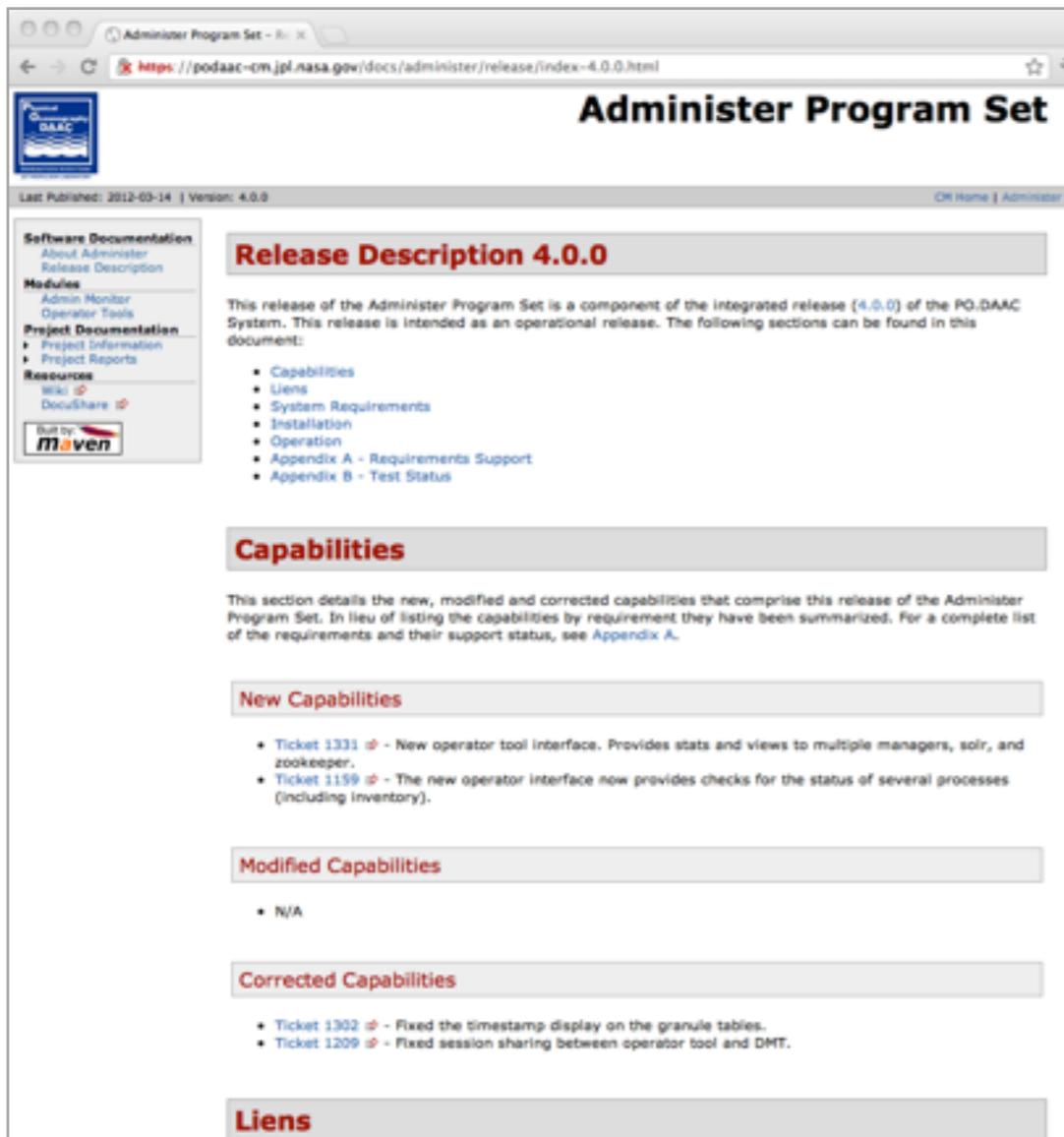
23

New Datasets

Core System 4.0.0 Program Sets



Administer



The screenshot shows a web browser window titled "Administrator Program Set". The URL is <https://podaac-cm.jpl.nasa.gov/docs/administer/release/index-4.0.0.html>. The page header includes the JPL logo and navigation links for "Home" and "Administrator". The main content area is titled "Release Description 4.0.0". It contains a brief introduction about the release being part of the integrated release (4.0.0) of the PO.DAAC System. Below this is a sidebar with links for "Software Documentation", "Modules", "Project Documentation", and "Resources", along with a "Built by Maven" badge. The main content is organized into several sections: "Capabilities", "New Capabilities" (listing Trac tickets 1331 and 1159), "Modified Capabilities" (listing N/A), "Corrected Capabilities" (listing Trac tickets 1302 and 1209), and "Liens".

• New Capabilities

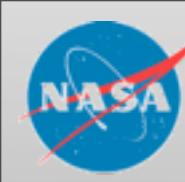
- [Trac 1159](#) - Add InventoryWS availability status to the Operator web interface
- [Trac 1331](#) - Operator Tool enhancements for the federated architecture

• Modified Capabilities

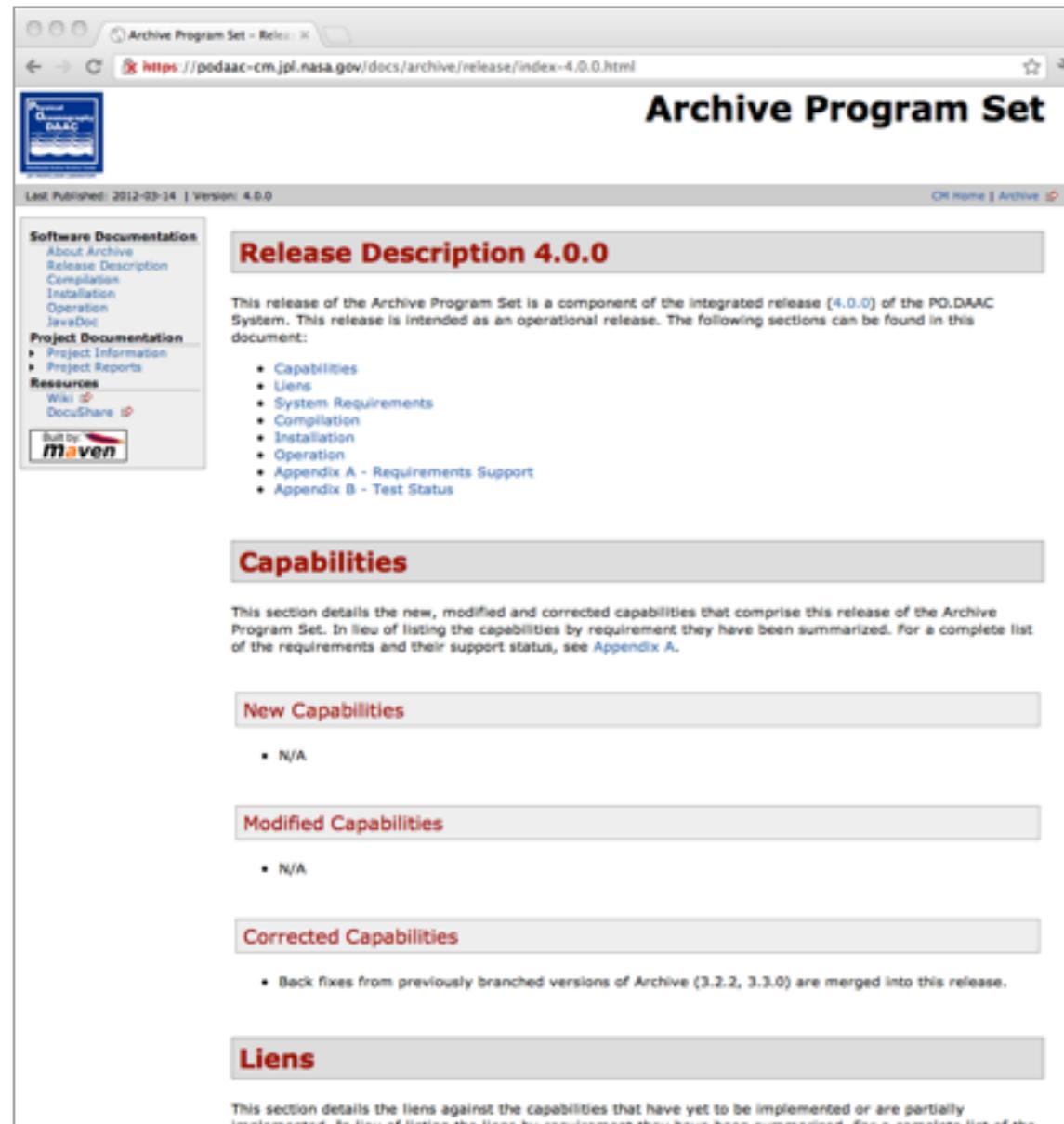
- none

• Corrected Capabilities

- [Trac 1209](#) - shared session keys between DMT and Operator Tool
- [Trac 1302](#) - operator interface: engine summary: timestamp not displaying properly



Archive



The screenshot shows a web browser window for the "Archive Program Set - Release 4.0.0". The URL is <https://podaac-cm.jpl.nasa.gov/docs/archive/release/index-4.0.0.html>. The page title is "Archive Program Set". The left sidebar contains links for Software Documentation (About Archive, Release Description, Compilation, Installation, Operation, JavaDoc), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocuShare). It also mentions "Built by maven". The main content area has a red header "Release Description 4.0.0" which includes a brief description of the release and a list of sections: Capabilities, Liens, System Requirements, Compilation, Installation, Operation, Appendix A - Requirements Support, and Appendix B - Test Status. Below this is a "Capabilities" section with a sub-section "New Capabilities" containing "N/A". The "Modified Capabilities" and "Corrected Capabilities" sections are also present. The "Liens" section contains a note about unimplemented requirements.

- **New Capabilities**

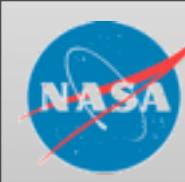
- none

- **Modified Capabilities**

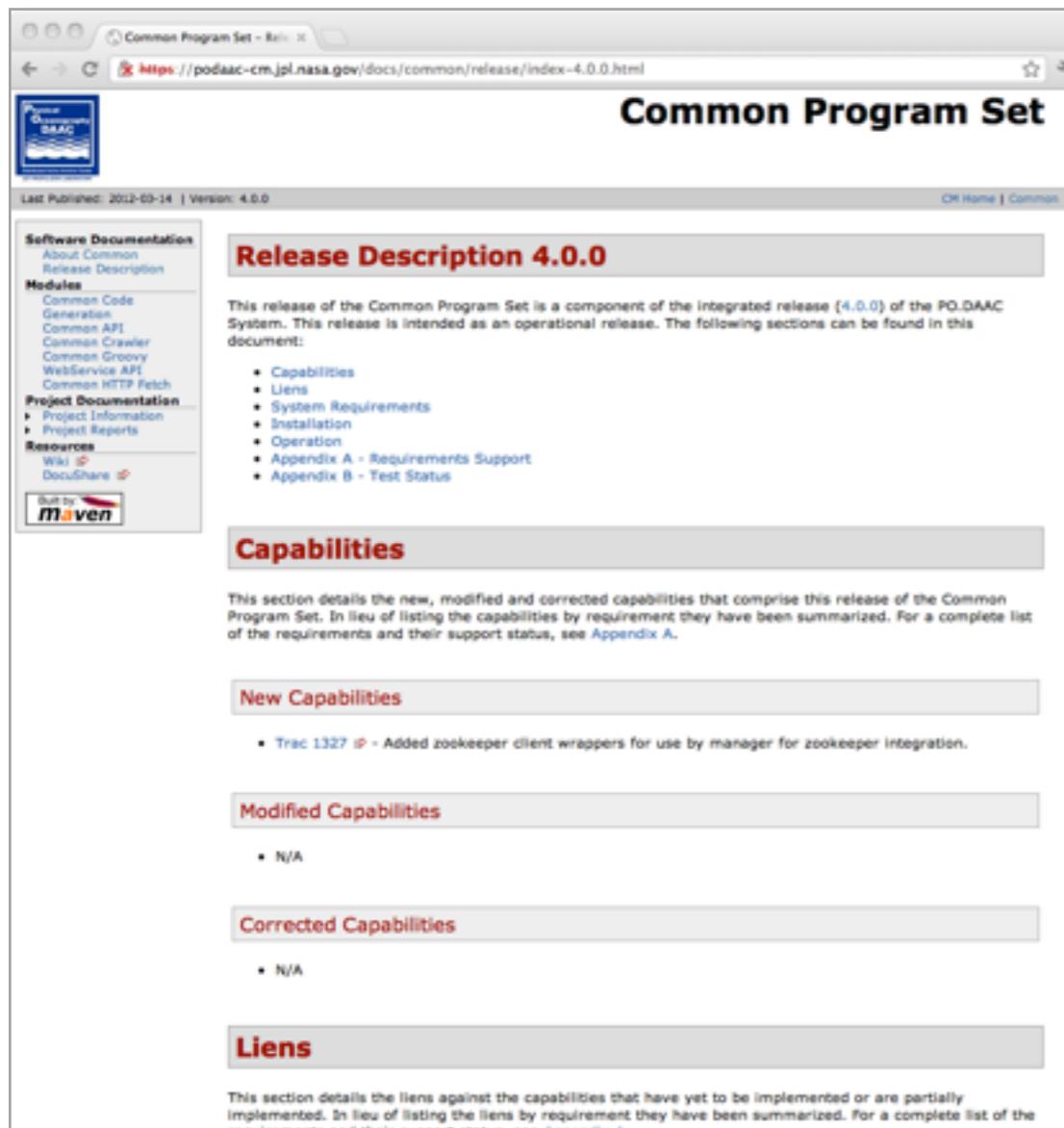
- none

- **Corrected Capabilities**

- Updates merged with D3.2.2 and D3.3.0



Common



Common Program Set - Rel... X https://podaac-cm.jpl.nasa.gov/docs/common/release/index-4.0.0.html

Common Program Set

Last Published: 2012-03-14 | Version: 4.0.0

Software Documentation

- About Common
- Release Description

Modules

- Common Code Generation
- Common API
- Common Crawler
- Common Group
- Webservice API
- Common HTTP Fetch

Project Documentation

- Project Information
- Project Reports

Resources

- Wiki
- Document Share

Built by 

Release Description 4.0.0

This release of the Common Program Set is a component of the Integrated release [4.0.0] of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Common Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

New Capabilities

- Trac 1327 IP - Added zookeeper client wrappers for use by manager for zookeeper integration.

Modified Capabilities

- N/A

Corrected Capabilities

- N/A

Liens

This section details the liens against the capabilities that have yet to be implemented or are partially implemented. In lieu of listing the liens by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

- New Capabilities**

- [Trac 1327](#) - New architecture to allow for multiple Managers assign jobs to pools of engines

- Modified Capabilities**

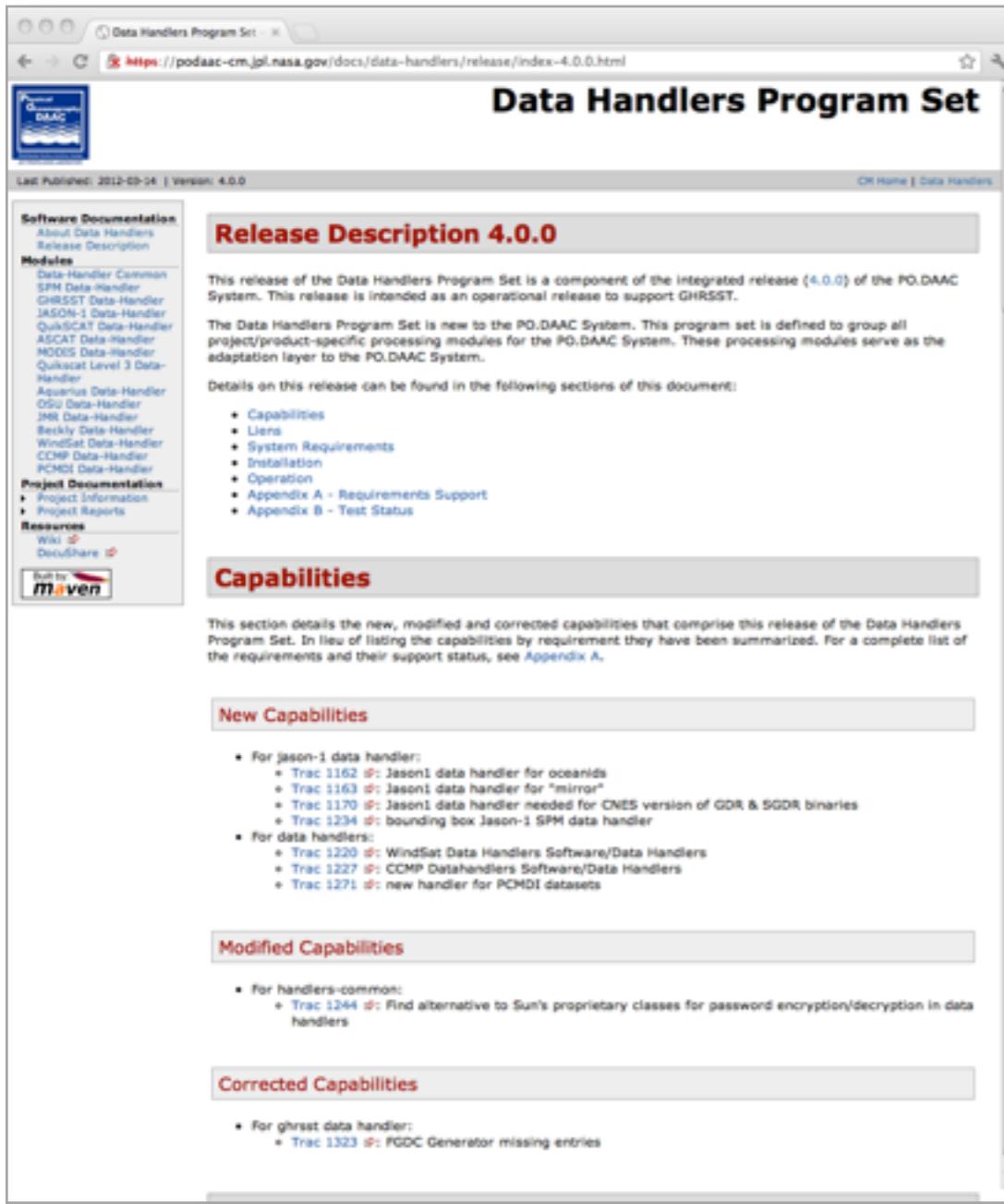
- none

- Corrected Capabilities**

- none



Data Handlers



The screenshot shows the "Data Handlers Program Set" release 4.0.0 website. The header includes the NASA and JPL logos. The main content area has a title "Data Handlers Program Set" and a sub-section "Release Description 4.0.0". It contains text about the release being part of the integrated PO.DAAC System and supporting GHRSST. Below this is a "Capabilities" section with subsections for "New Capabilities", "Modified Capabilities", and "Corrected Capabilities". Each section lists specific Trac tickets and their descriptions.

Release Description 4.0.0

This release of the Data Handlers Program Set is a component of the Integrated release (4.0.0) of the PO.DAAC System. This release is intended as an operational release to support GHRSST.

The Data Handlers Program Set is new to the PO.DAAC System. This program set is defined to group all project/product-specific processing modules for the PO.DAAC System. These processing modules serve as the adaptation layer to the PO.DAAC System.

Details on this release can be found in the following sections of this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Data Handlers Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see Appendix A.

New Capabilities

- For jason-1 data handler:
 - Trac 1162 : Jason1 data handler for oceanids
 - Trac 1163 : Jason1 data handler for "mirror"
 - Trac 1170 : Jason1 data handler needed for CNES version of GDR & SGDR binaries
 - Trac 1234 : bounding box Jason-1 SPM data handler
- For data handlers:
 - Trac 1220 : WindSat Data Handlers Software/Data Handlers
 - Trac 1227 : CCMP Datahandlers Software/Data Handlers
 - Trac 1271 : new handler for PCMDI datasets

Modified Capabilities

- for handlers-common:
 - Trac 1244 : Find alternative to Sun's proprietary classes for password encryption/decryption in data handlers

Corrected Capabilities

- for ghrsst data handler:
 - Trac 1323 : FGDC Generator missing entries

• New Capabilities

- [Trac 1162](#) - Jason1 data handler for oceanids
- [Trac 1163](#) - Jason1 data handler for "mirror"
- [Trac 1170](#) - Jason1 data handler needed for CNES version of GDR & SGDR binaries
- [Trac 1234](#) - bounding box Jason-1 SPM data handler
- [Trac 1220](#) - WindSat Data Handlers
- [Trac 1227](#) - CCMP Datahandlers
- [Trac 1271](#) - new handler for PCMDI datasets

• Modified Capabilities

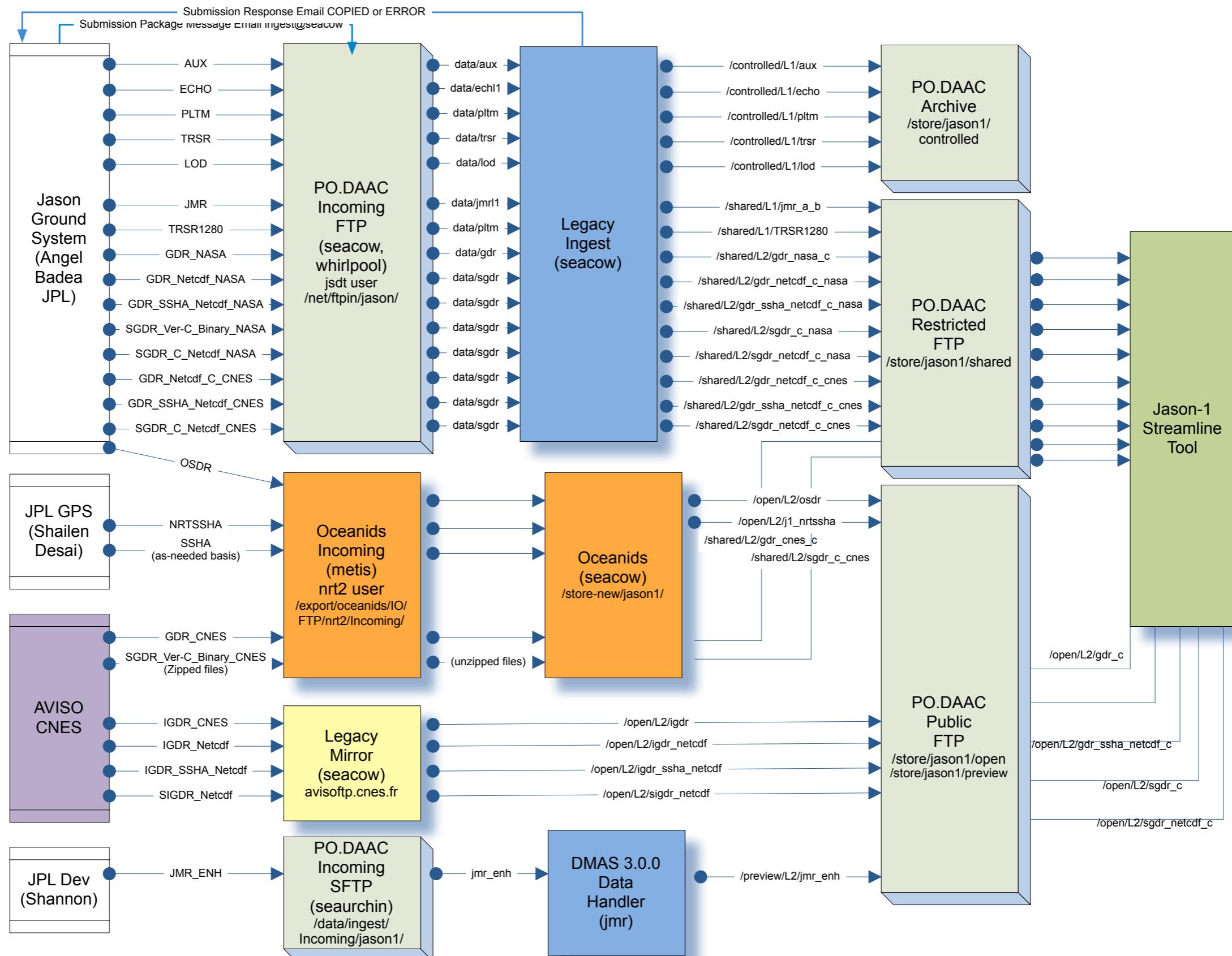
- [Trac 1244](#) - Find alternative to Sun's proprietary classes for password encryption/decryption in data handlers

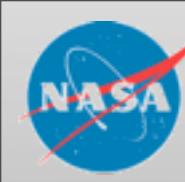
• Corrected Capabilities

- [Trac 1323](#) - FGDC Generator missing entries

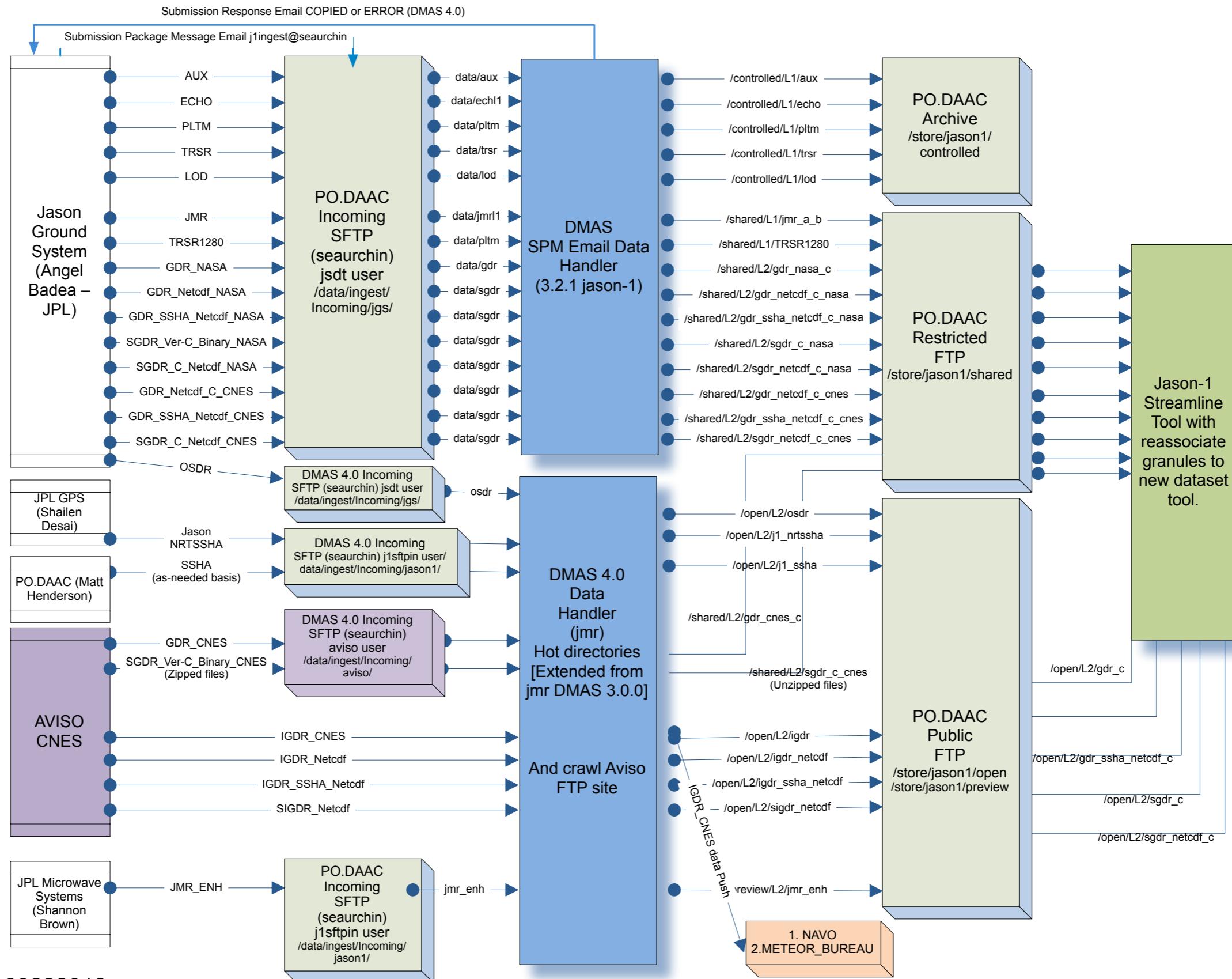


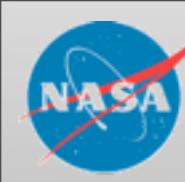
Jason-1 Legacy Data Flows



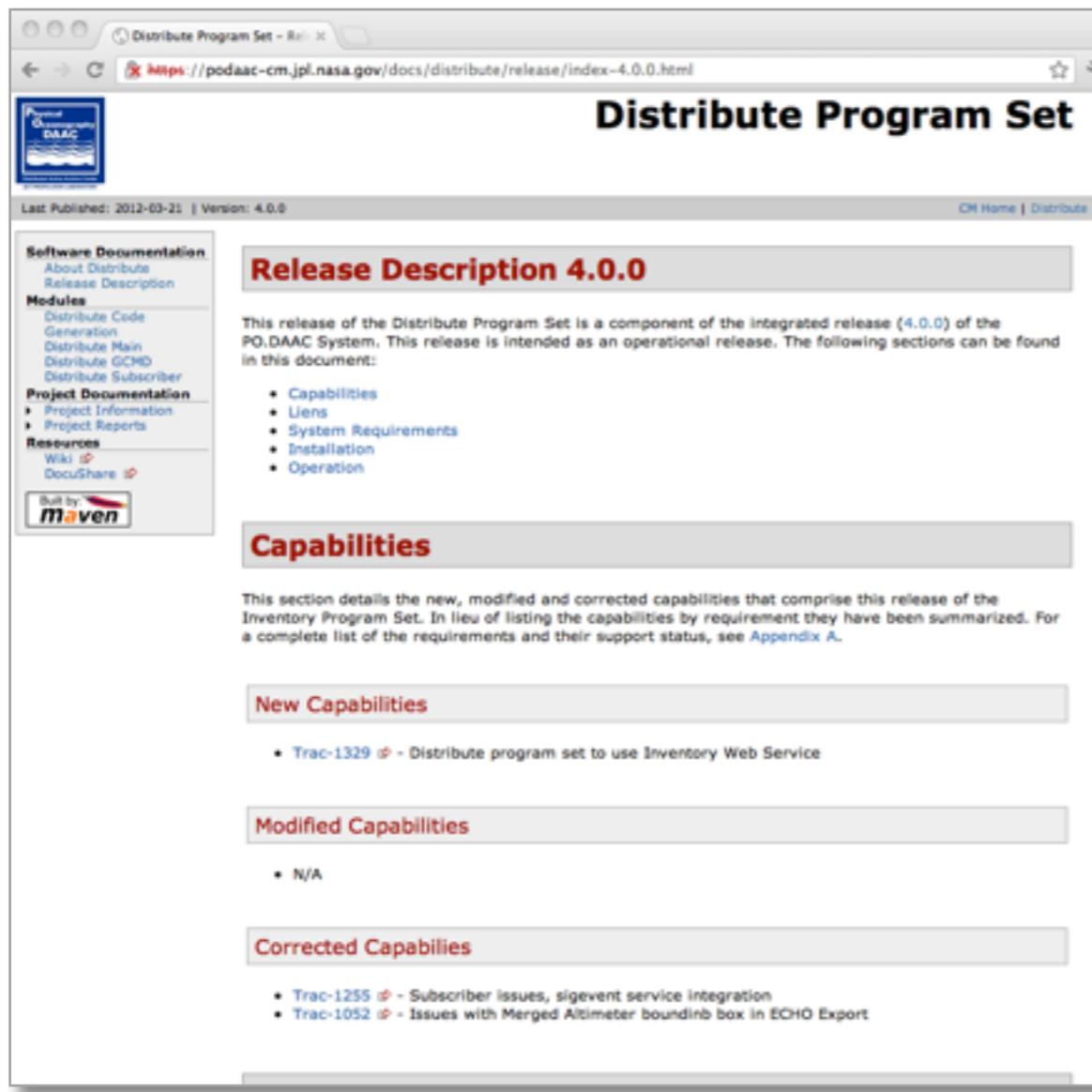


Jason-1 DMAS Data Flows





Distribute



The screenshot shows a web browser displaying the 'Distribute Program Set' documentation. The title 'Distribute Program Set' is at the top. Below it is a 'Release Description 4.0.0' section containing text about the release and a list of capabilities. Further down are sections for 'New Capabilities', 'Modified Capabilities', and 'Corrected Capabilities', each with a corresponding list of items. The left sidebar contains navigation links for Software Documentation, Modules, Project Documentation, and Resources, along with a Maven badge.

Release Description 4.0.0

This release of the Distribute Program Set is a component of the integrated release (4.0.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liens
- System Requirements
- Installation
- Operation

Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Inventory Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

New Capabilities

- Trac-1329 - Distribute program set to use Inventory Web Service

Modified Capabilities

- N/A

Corrected Capabilities

- Trac-1255 - Subscriber issues, sigevent service integration
- Trac-1052 - Issues with Merged Altimeter bounding box in ECHO Export

- **New Capabilities**

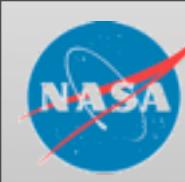
- [Trac 1329](#) - Distribute program set to use Inventory Service

- **Modified Capabilities**

- none

- **Corrected Capabilities**

- [Trac 1052](#) - Zero-valued ECHO bounding boxes for Merged Altimeter Data
- [Trac 1255](#) - Distribute-subscriber bug fixes for disk out of space errors



Generate Program Set - Rel... X

https://podaac-cm.jpl.nasa.gov/docs/generate/release/index-4.0.0.html

Generate Program Set

Last Published: 2012-03-14 | Version: 4.0.0

CM Home | Generate

Software Documentation

- About Generate
- Release Description

Modules

- RTOSSST

Project Documentation

- Project Information
- Project Reports

Resources

- Wiki
- DocuShare

Built by maven

Release Description 4.0.0

This release of the Generate Program Set is a component of the integrated release (4.0.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Liers
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Generate Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see Appendix A.

New Capabilities

- * N/A

Modified Capabilities

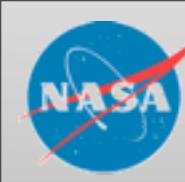
- * N/A

Corrected Capabilities

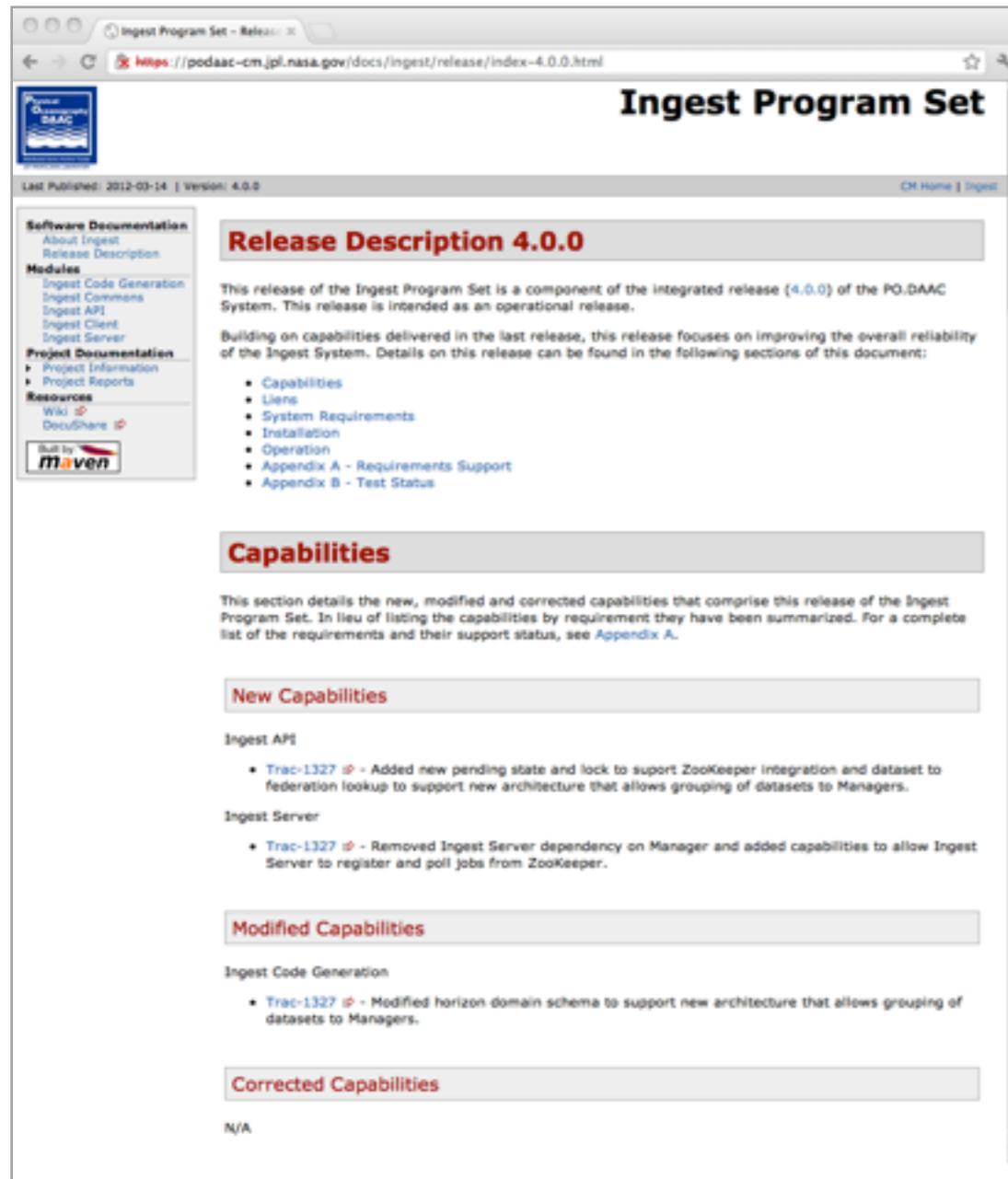
- * N/A

Generate

- **New Capabilities**
 - none
- **Modified Capabilities**
 - none
- **Corrected Capabilities**
 - none



Ingest



The screenshot shows a web browser displaying the "Ingest Program Set - Release 4.0.0" documentation at <https://podaac-cm.jpl.nasa.gov/docs/ingest/release/index-4.0.0.html>. The page title is "Ingest Program Set". The left sidebar contains links for Software Documentation (About Ingest, Release Description), Modules (Ingest Code Generation, Ingest Commons, Ingest API, Ingest Client, Ingest Server), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocShare). A Maven build status badge is also present. The main content area includes sections for "Release Description 4.0.0", "Capabilities", "New Capabilities", "Modified Capabilities", and "Corrected Capabilities". The "Release Description 4.0.0" section notes that this is a component of the integrated release (4.0.0) of the PO.DAAC System. The "Capabilities" section lists new, modified, and corrected capabilities. The "New Capabilities" section lists changes to the Ingest API and Ingest Server. The "Modified Capabilities" section lists changes to Ingest Code Generation. The "Corrected Capabilities" section is marked as N/A.

- **New Capabilities**

- [Trac 1327](#) - New architecture to allow for multiple Managers assign jobs to pools of engines

- **Modified Capabilities**

- none

- **Corrected Capabilities**

- none

Manager and Engines Interactions with ZooKeeper

Engines

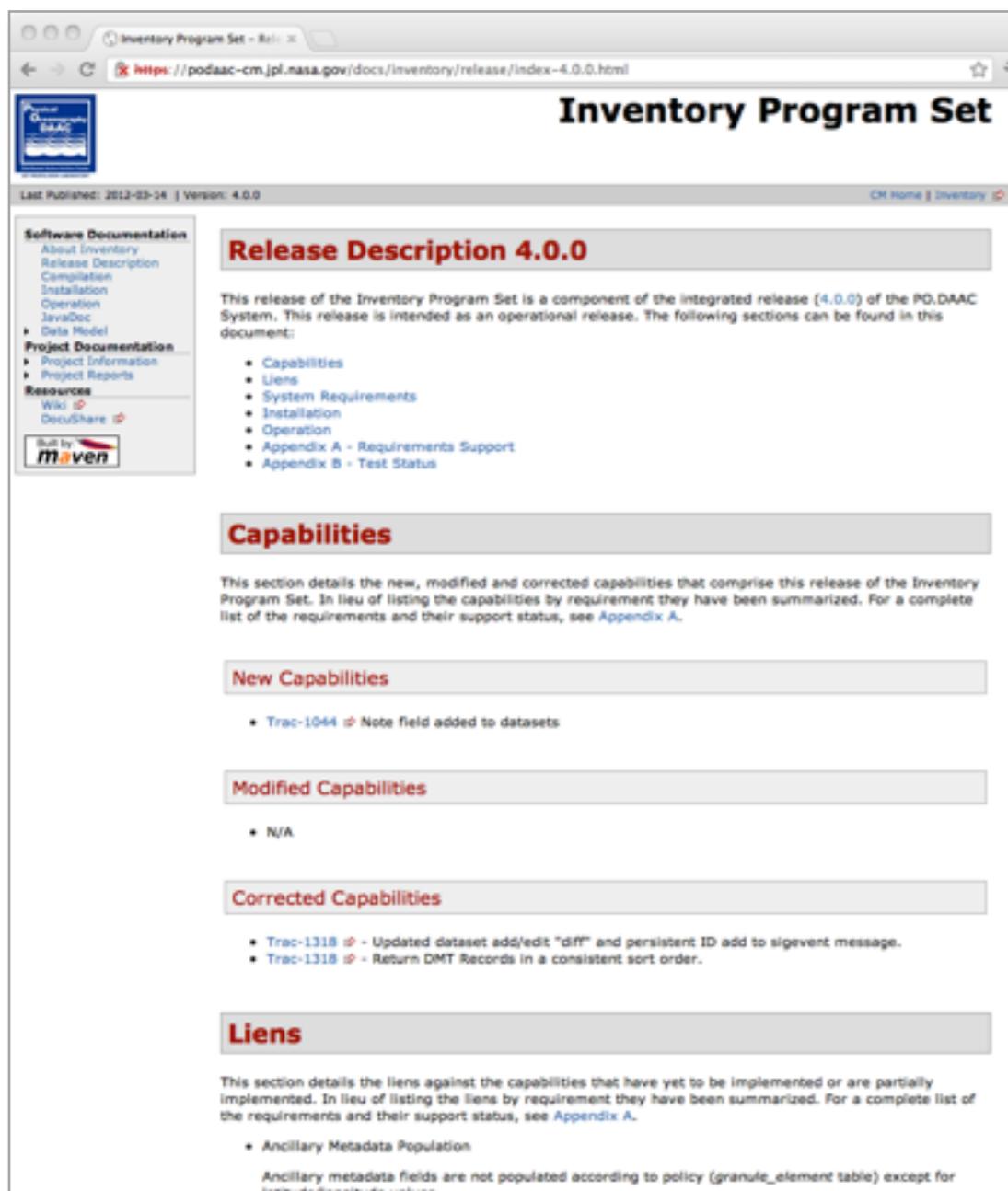
- ✓ Register with ZK
- ✓ Check Pause/Stop Signals
- ✓ Fetch Ingest/Archive Job
- ✓ Update Job Status

Manager

- ✓ Post Ingest/Archive Jobs
- ✓ Register for Notification
- ✓ Upon Notified, Check Job
- ✓ Remove Process Node



Inventory



The screenshot shows a web browser displaying the 'Inventory Program Set' documentation at <https://podaac-cm.jpl.nasa.gov/docs/Inventory/release/index-4.0.0.html>. The page title is 'Inventory Program Set'. The left sidebar contains links for Software Documentation (About Inventory, Release Description, Compilation, Installation, Operation, JavaDoc, Data Model), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DecuShare). A 'Built by maven' badge is also present. The main content area includes a 'Release Description 4.0.0' section, a 'Capabilities' section, a 'Liens' section, and a 'Corrected Capabilities' section. The 'Capabilities' section lists 'New Capabilities' (Trac-1044 - Note field added to datasets), 'Modified Capabilities' (N/A), and 'Corrected Capabilities' (Trac-1318 - Updated dataset add/edit "diff" and persistent ID add to sigevent message; Trac-1318 - Return DMT Records in a consistent sort order). The 'Liens' section notes that ancillary metadata fields are not populated according to policy.

- **New Capabilities**

- [Trac 1044](#) - Web Portal: Add Notes Category to Dataset Information Page

- **Modified Capabilities**

- none

- **Corrected Capabilities**

- [Trac 1318](#) - DMT - return records in consistent sort order
- [Trac 1330](#) - Inventory dataset add/edit to have different sig event information



Middleware Program Set - X https://podaac-cm.jpl.nasa.gov/docs/middleware/release/index-4.0.0.html

Middleware Program Set

Last Published: 2012-03-04 | Version: 4.0.0

Release Description 4.0.0

This release of the Middleware Program Set is a component of the integrated release (4.0.0) of the PO.DAAC System.

The Middleware Program Set is new to the PO.DAAC System. This program is defined to group all middleware-related modules for the PO.DAAC System. In the (4.0.0) of PO.DAAC System, a middleware components was released as part of the Ingest Program Set, the ingest-grails module. Our success in the application of middleware technology into the PO.DAAC System has demonstrated the need of more web-enable service components in the future of PO.DAAC.

The first module being released with this program set is the Manager module. The Manager module is the successor of the Ingest-grails module. Building on capabilities delivered in the last release, this release focuses on improving the overall reliability of the Middleware Services used by the PO.DAAC System. The service architecture offers simplified and flexible approach for organizing data products from various mission and/or instruments.

The second module being released with this program set is the Inventory Web Service module. This module wraps the Inventory program set with a restful web service. This allows the Inventory program set to be separated from other modules, which increases security (fewer connections, usernames to the database) as well as flexibility (single point of Inventory changes, federate the inventory service). 3.2.1 is the initial release of the Inventory web service.

Details on this release can be found in the following sections of this document:

- Capabilities
- Liers
- System Requirements
- Installation
- Operation
- Appendix A - Requirements Support
- Appendix B - Test Status

Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the Ingest Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see Appendix A.

New Capabilities

The following capabilities are new for this release

- Manager
 - + CR-1327 ⓘ - New architecture to allow multiple Managers to assign jobs to Apache ZooKeeper.
- SigEvent
 - + CR-1306 ⓘ - Added group select, group resolve capability. Also added a resolve filter on the events table.
- Inventory
 - + CR-1329 ⓘ - Added new methods to support Distribute web services

Modified Capabilities

The following capabilities have been modified for this release

- Manager
 - + None
- SigEvent
 - + CR-1313 ⓘ - Changed the contact input when creating a new notification to check for proper e-mail format.
- Inventory
 - + CR-1332 ⓘ - Added transfer syntax for spatial geometry granule data (using WKT syntax)

Corrected Capabilities

The following capabilities have been corrected for this release

- Manager
 - + None
- Sigevent
 - + CR-1208 ⓘ - Fixed the text on the reminder rate field label.
 - + CR-917 ⓘ - Changed user setting column to blob type to allow more than 3 tabs to be saved.
- Inventory
 - + None

Middleware

• New Capabilities

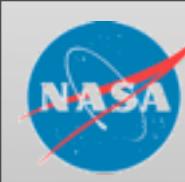
- [Trac 1306](#) - Sig Event viewer enhancements: group resolve and filter out resolved
- [Trac 1327](#) - New architecture to allow for multiple Managers assign jobs to pools of engines
- [Trac 1329](#) - Distribute program set to use Inventory Service

• Modified Capabilities

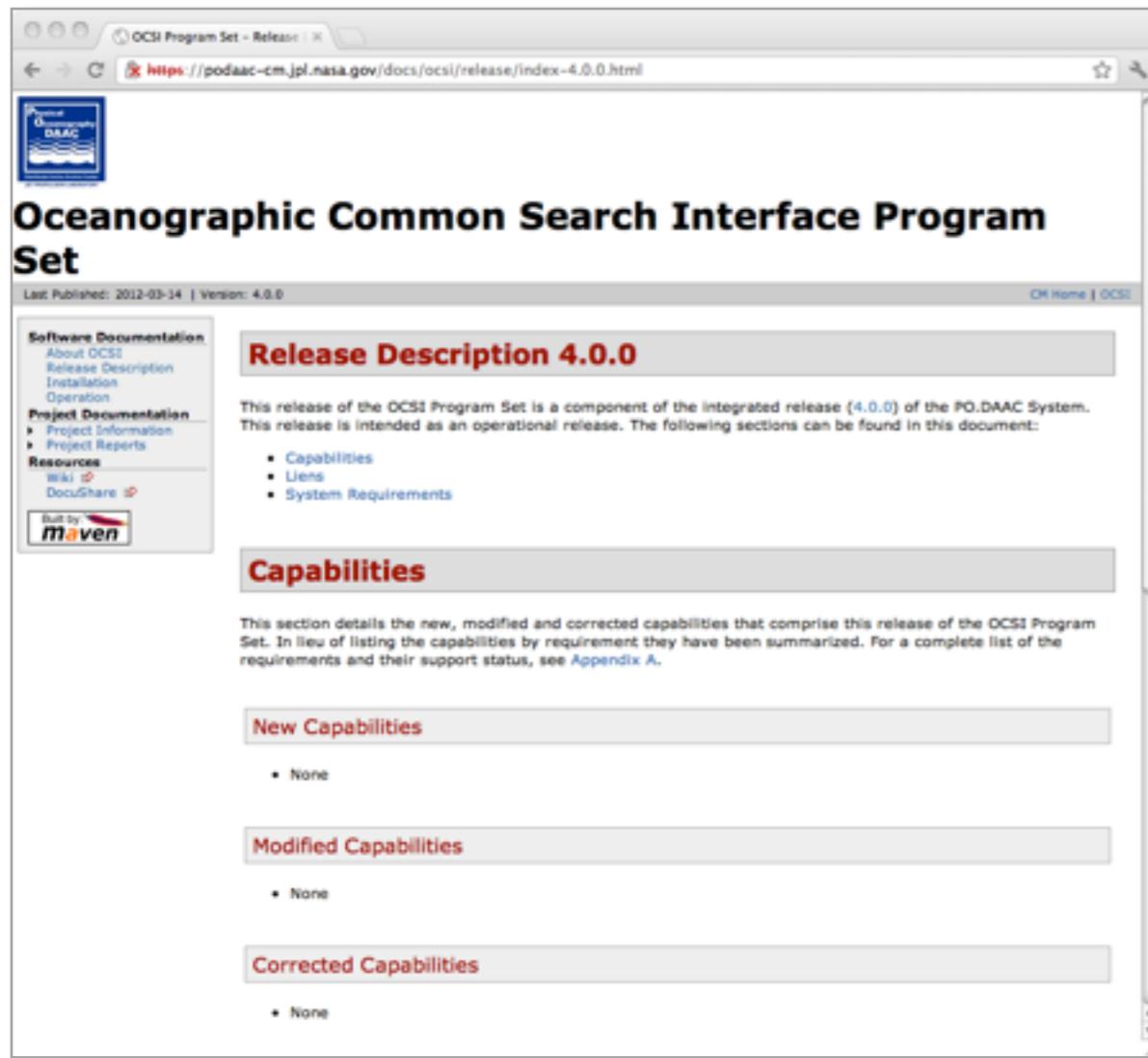
- [Trac 1313](#) - SigEvent: verify EMAIL address syntax when subscribe to email notification
- [Trac 1332](#) - Inventory Web Service needs alternate way to represent geometry in XML

• Corrected Capabilities

- [Trac 917](#) - SIG EVENT: add capability to save customized view
- [Trac 1208](#) - sig event: correct text for reminder field setting



OCSI



The screenshot shows a web browser displaying the "OCEANOGRAPHIC COMMON SEARCH INTERFACE PROGRAM SET" (OCSI) website. The URL is https://podaac-cm.jpl.nasa.gov/docs/ocsi/release/index-4.0.0.html. The page title is "Release Description 4.0.0". The left sidebar contains links for Software Documentation (About OCSI, Release Description, Installation, Operation), Project Documentation (Project Information, Project Reports), and Resources (Wiki, DocuShare). A "Built by maven" badge is also present. The main content area starts with a section titled "Release Description 4.0.0" which states: "This release of the OCSI Program Set is a component of the integrated release (4.0.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document: Capabilities, Liens, System Requirements". Below this is a "Capabilities" section with three sub-sections: "New Capabilities" (None), "Modified Capabilities" (None), and "Corrected Capabilities" (None).

- **New Capabilities**

- none

- **Modified Capabilities**

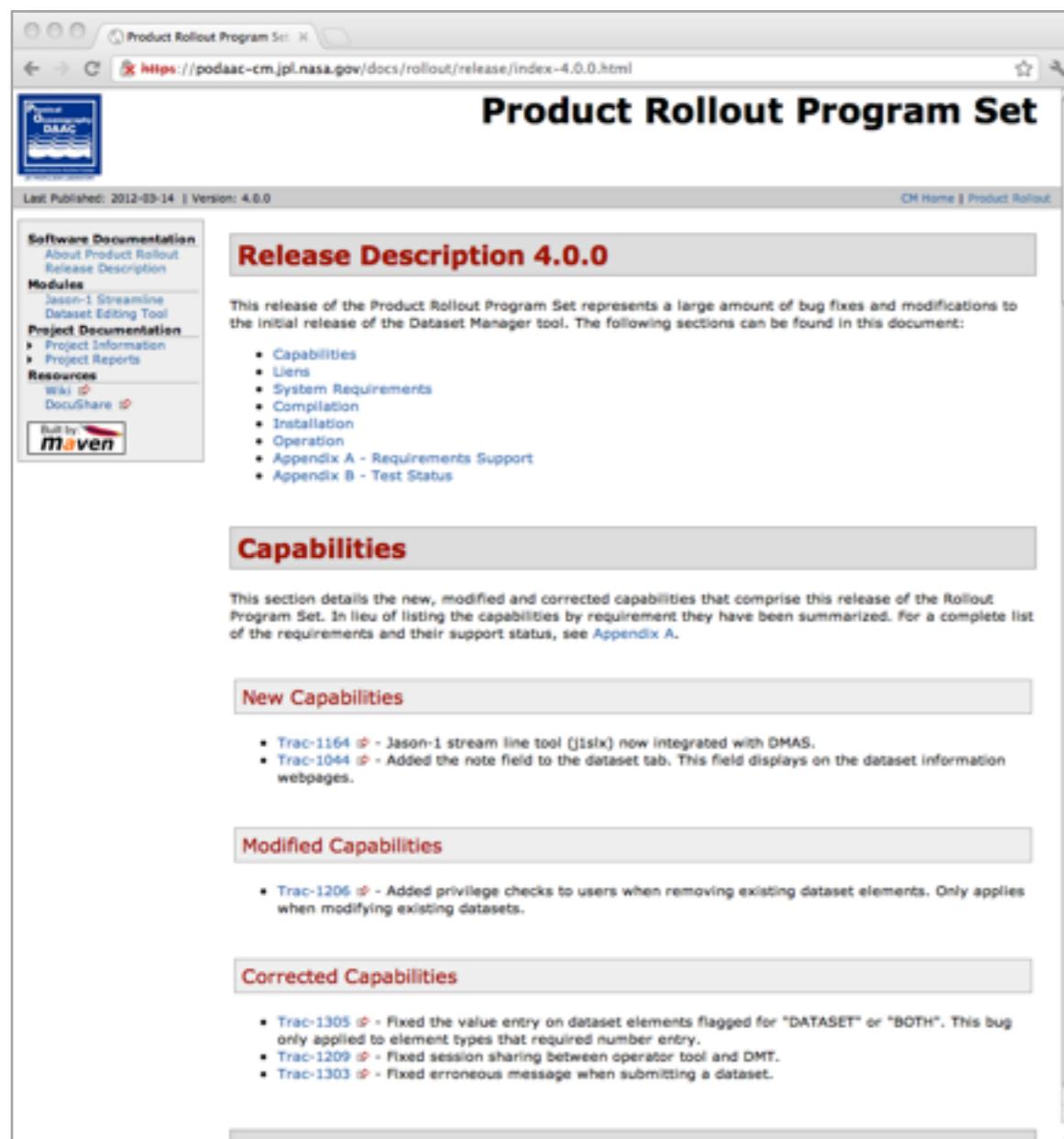
- none

- **Corrected Capabilities**

- none



Product Rollout



The screenshot shows a web browser window for the 'Product Rollout Program Set' at https://podaac-cm.jpl.nasa.gov/docs/rollout/release/index-4.0.0.html. The page title is 'Product Rollout Program Set'. The left sidebar includes links for Software Documentation, Project Documentation (Jason-1 Streamline Dataset Editing Tool), and Resources (Wiki, DocShare). The main content area is titled 'Release Description 4.0.0' and contains a summary of bug fixes and modifications. Below it is a 'Capabilities' section with three subsections: 'New Capabilities', 'Modified Capabilities', and 'Corrected Capabilities', each listing specific Trac tickets.

- **New Capabilities**
 - [Trac 1044](#) - Web Portal: Add Notes Category to Dataset Information Page
 - [Trac 1164](#) - Jason1 - Migrate J1 stream line tool to use DMAS
- **Modified Capabilities**
 - [Trac 1206](#) - DMT should not allow DE to delete dataset/granule elements for archive dataset
- **Corrected Capabilities**
 - [Trac 1209](#) - shared session keys between DMT and Operator Tool
 - [Trac 1303](#) - DMT: error encountered while saving message
 - [Trac 1305](#) - DMT Problem with Spatial Bounding Box Elements

• New Capabilities

- [Trac 1044](#) - Web Portal: Add Notes Category to Dataset Information Page
- [Trac 1164](#) - Jason1 - Migrate J1 stream line tool to use DMAS

• Modified Capabilities

- [Trac 1206](#) - DMT should not allow DE to delete dataset/granule elements for archive dataset

• Corrected Capabilities

- [Trac 1209](#) - shared session keys between DMT and Operator Tool
- [Trac 1303](#) - DMT: error encountered while saving message
- [Trac 1305](#) - DMT Problem with Spatial Bounding Box Elements

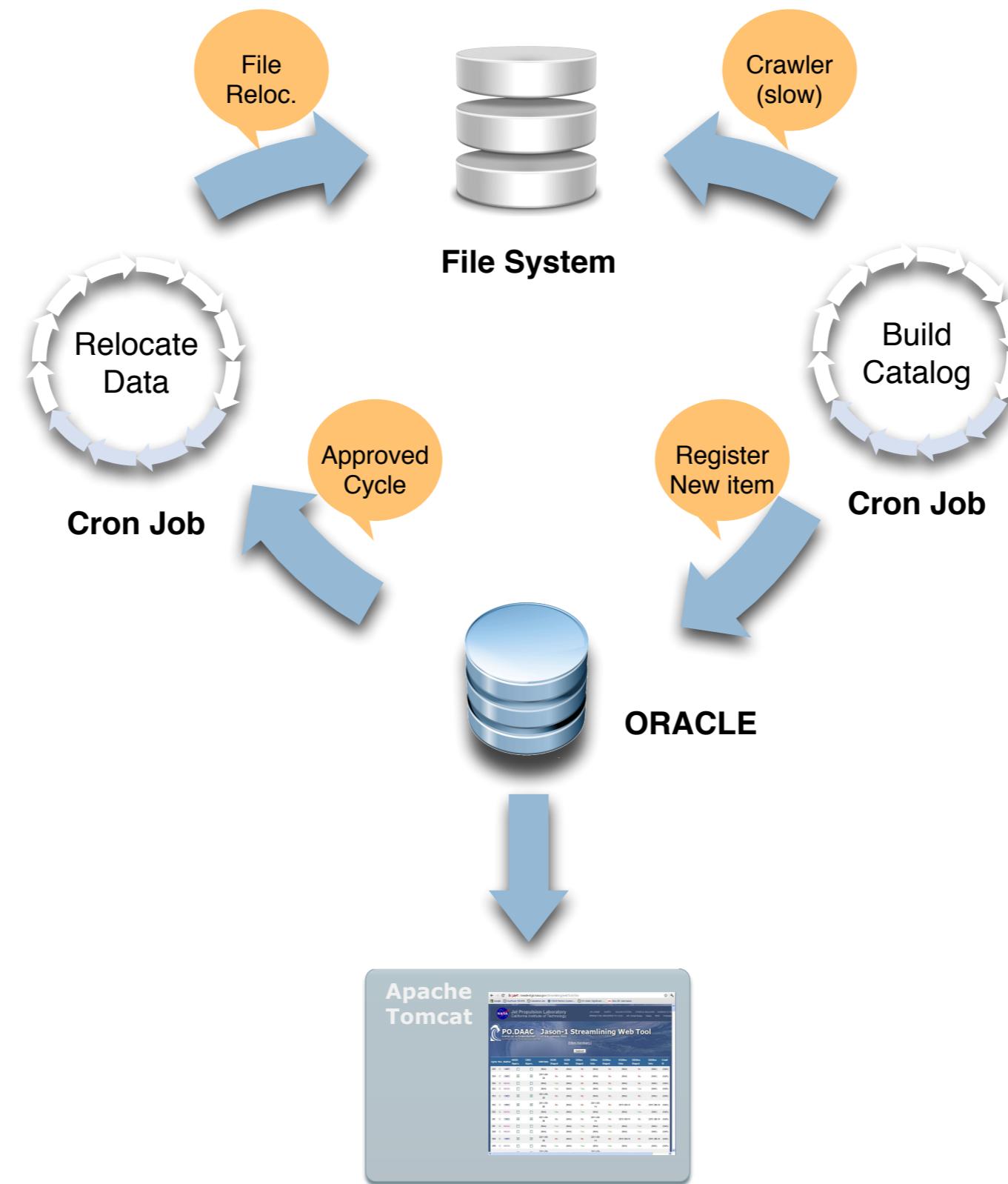


National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California



Legacy Jason-1 Streamline Tool





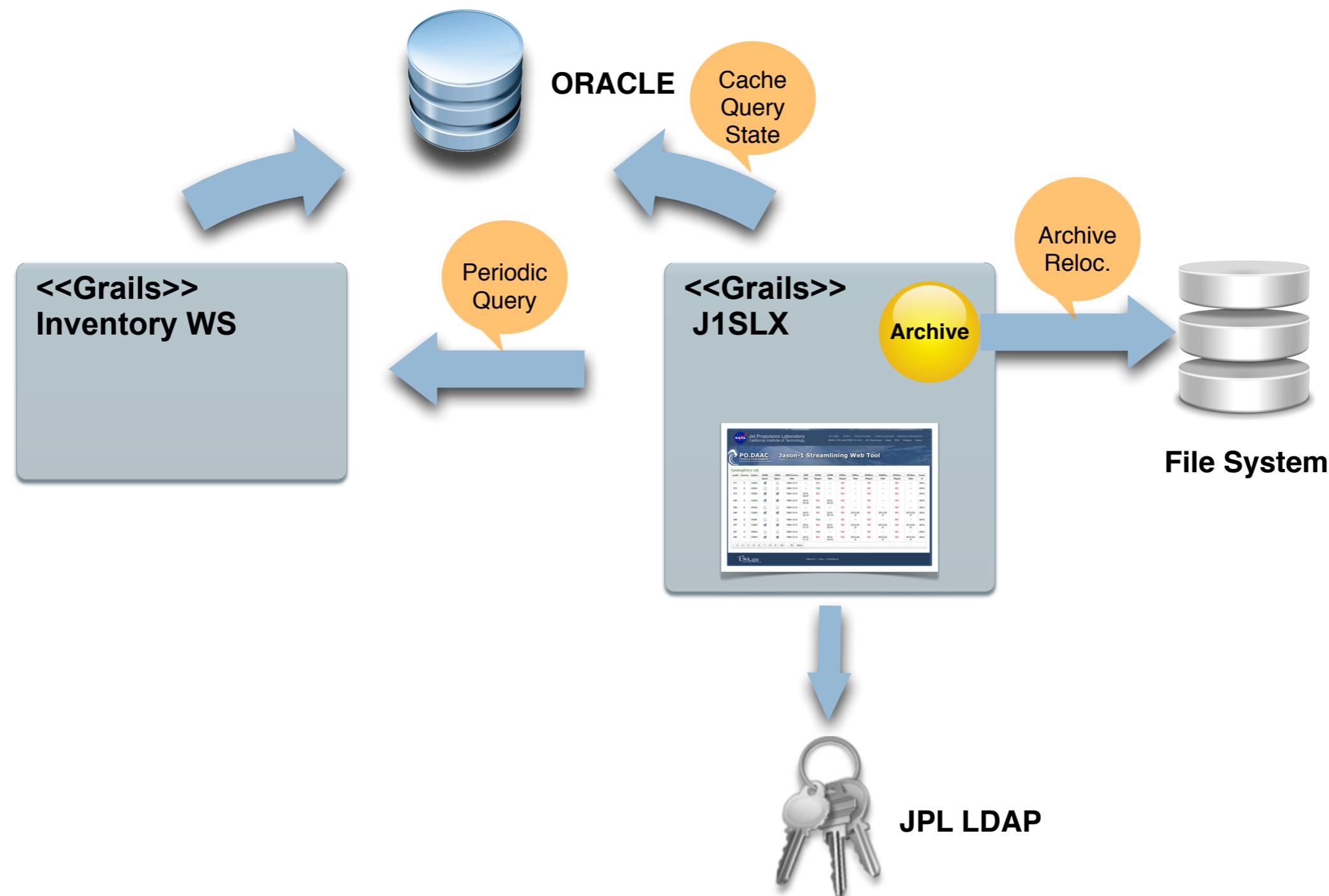
National Aeronautics and
Space Administration

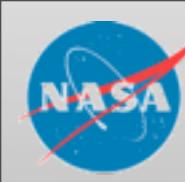
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL



New Jason-1 Streamline Web Application





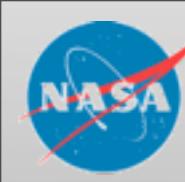
The New Jason-1 Streamline Web Application

CatalogEntry List

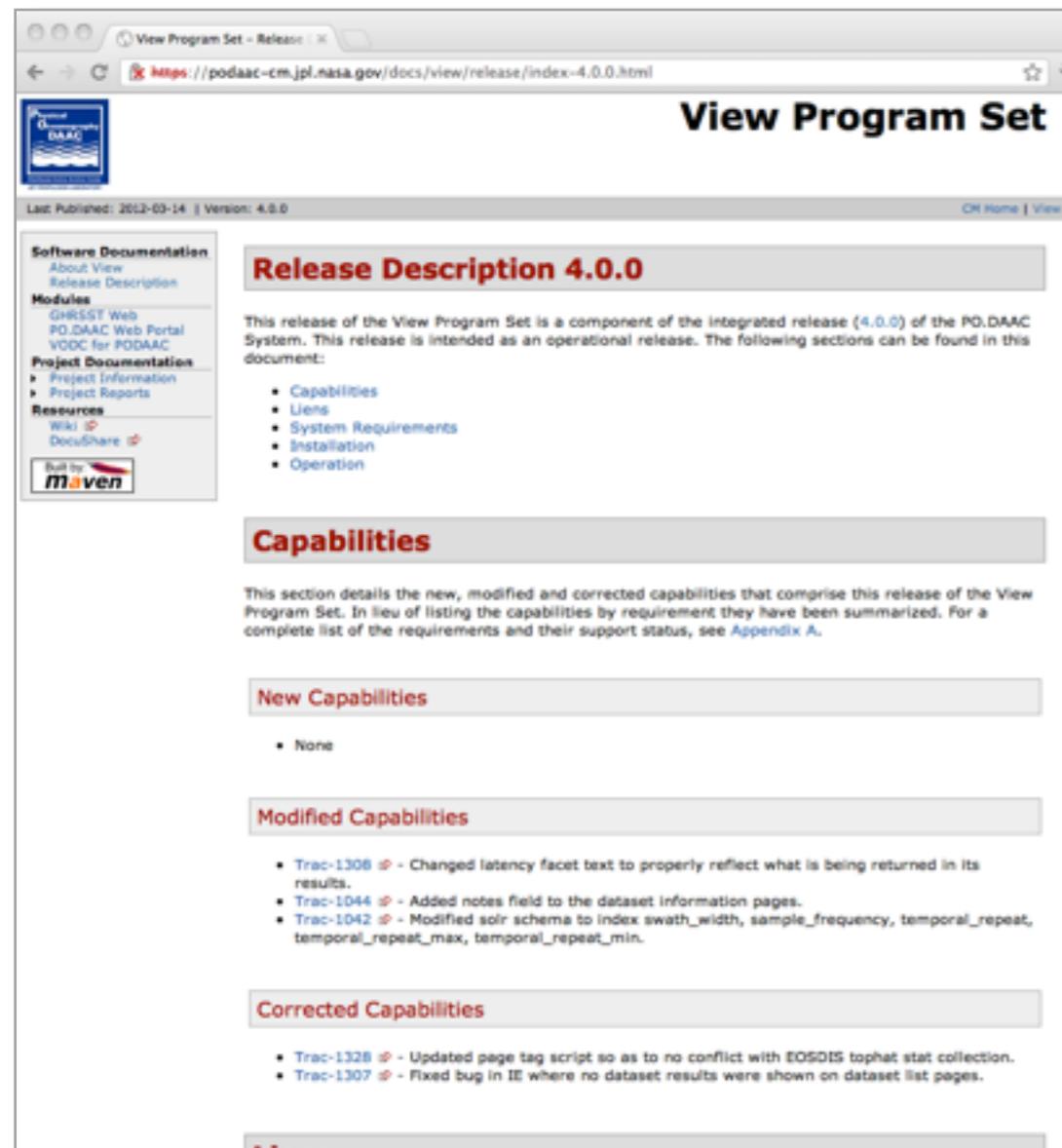
cycle#	Version	Author	NASA	CNES	GDR Archive	GDR Date	SDOR	SDOR Date	GDRre	GDRre Date	SDORre	SDORre Date	SDORre Staged	SDORre Date	SDORre Email
371	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
370	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	YES	--	NO	--	NO	--	NO	--	(N/A)
370	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
369	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
368	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
368	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
367	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	YES	--	NO	--	NO	--	NO	--	(N/A)
367	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
366	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-01-31	NO	2012-01-30	NO	2012-02-21	NO	2012-02-21	NO	2012-03-21	(N/A)
366	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-01-31	NO	2012-02-03	NO	2012-02-21	NO	2012-02-21	NO	2012-03-21	(N/A)

CatalogEntry List

cycle#	Version	Author	NASA	CNES	GDR Archive	GDR Date	SDOR	SDOR Date	GDRre	GDRre Date	SDORre	SDORre Date	SDORre Staged	SDORre Date	SDORre Email
371	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	NO	--	NO	--	NO	--	NO	--	(N/A)
370	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	YES	--	NO	--	NO	--	NO	--	(N/A)
370	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-03-07	NO	--	NO	--	NO	--	NO	--	(N/A)
369	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-03-22	NO	2012-03-23	NO	--	NO	--	NO	--	(N/A)
369	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	YES	--	NO	--	NO	--	NO	--	(N/A)
368	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-03-15	NO	2012-03-19	NO	2012-03-21	NO	2012-03-21	NO	2012-03-21	(N/A)
368	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	YES	--	NO	--	NO	--	NO	--	(N/A)
367	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-01-31	NO	2012-02-03	NO	2012-02-21	NO	2012-03-21	NO	2012-03-21	(N/A)
367	C	NAIA	<input type="checkbox"/>	<input type="checkbox"/>	1969-12-31	--	YES	--	NO	--	NO	--	NO	--	(N/A)
366	C	CNES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1969-12-31	2012-01-31	NO	2012-02-03	NO	2012-02-21	NO	2012-03-21	NO	2012-03-21	(N/A)



View



View Program Set - Release 4.0.0

https://podaac-cm.jpl.nasa.gov/docs/view/release/index-4.0.0.html

View Program Set

Release Description 4.0.0

This release of the View Program Set is a component of the integrated release (4.0.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:

- Capabilities
- Lens
- System Requirements
- Installation
- Operation

Capabilities

This section details the new, modified and corrected capabilities that comprise this release of the View Program Set. In lieu of listing the capabilities by requirement they have been summarized. For a complete list of the requirements and their support status, see [Appendix A](#).

New Capabilities

- None

Modified Capabilities

- Trac-1308 - Changed latency facet text to properly reflect what is being returned in its results.
- Trac-1044 - Added notes field to the dataset Information pages.
- Trac-1042 - Modified solr schema to index swath_width, sample_frequency, temporal_repeat, temporal_repeat_max, temporal_repeat_min.

Corrected Capabilities

- Trac-1328 - Updated page tag script so as to no conflict with EOSDIS tophat stat collection.
- Trac-1307 - Fixed bug in IE where no dataset results were shown on dataset list pages.

- **New Capabilities**

- none

- **Modified Capabilities**

- [Trac 1042](#) - Changes to the Resolution field
- [Trac 1044](#) - Web Portal: Add Notes Category to Dataset Information Page

- [Trac 1308](#) - LATENCY selections result Incorrect

- **Corrected Capabilities**

- [Trac 1307](#) - Drupal web portal blank dataset listing
- [Trac 1328](#) - EMS ntpagetag.js script out of date



National Aeronautics and
Space Administration

Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California



Core System 4.0.0