

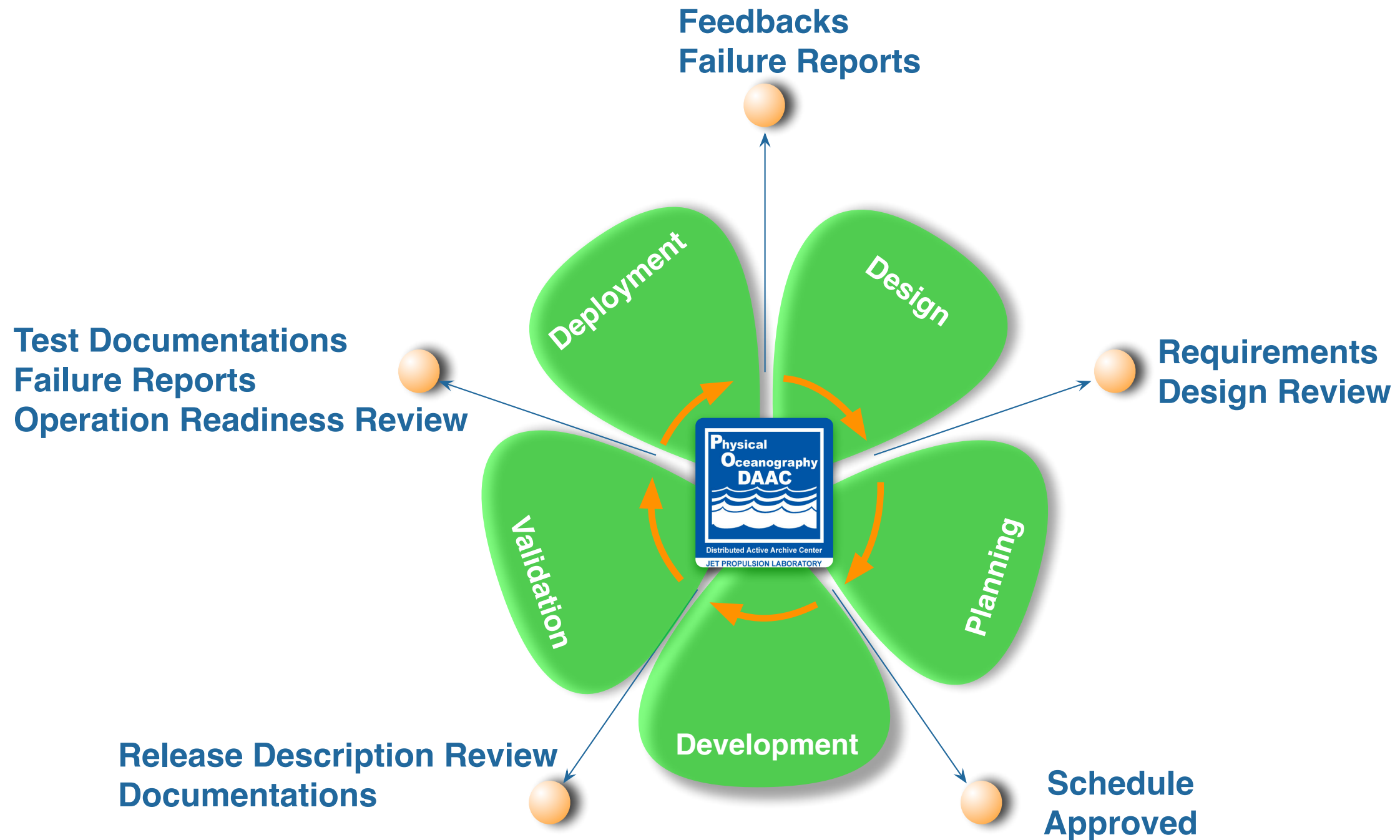
Core System v3.2.0

Release Description Document (RDD)
Review

Thomas Huang
September 1, 2011



Our Process





What

InventoryWS

Jason-1

FGDC

Solr
(Master/Slave)

Bug Fixes



Architecture





System Level Changes



maven



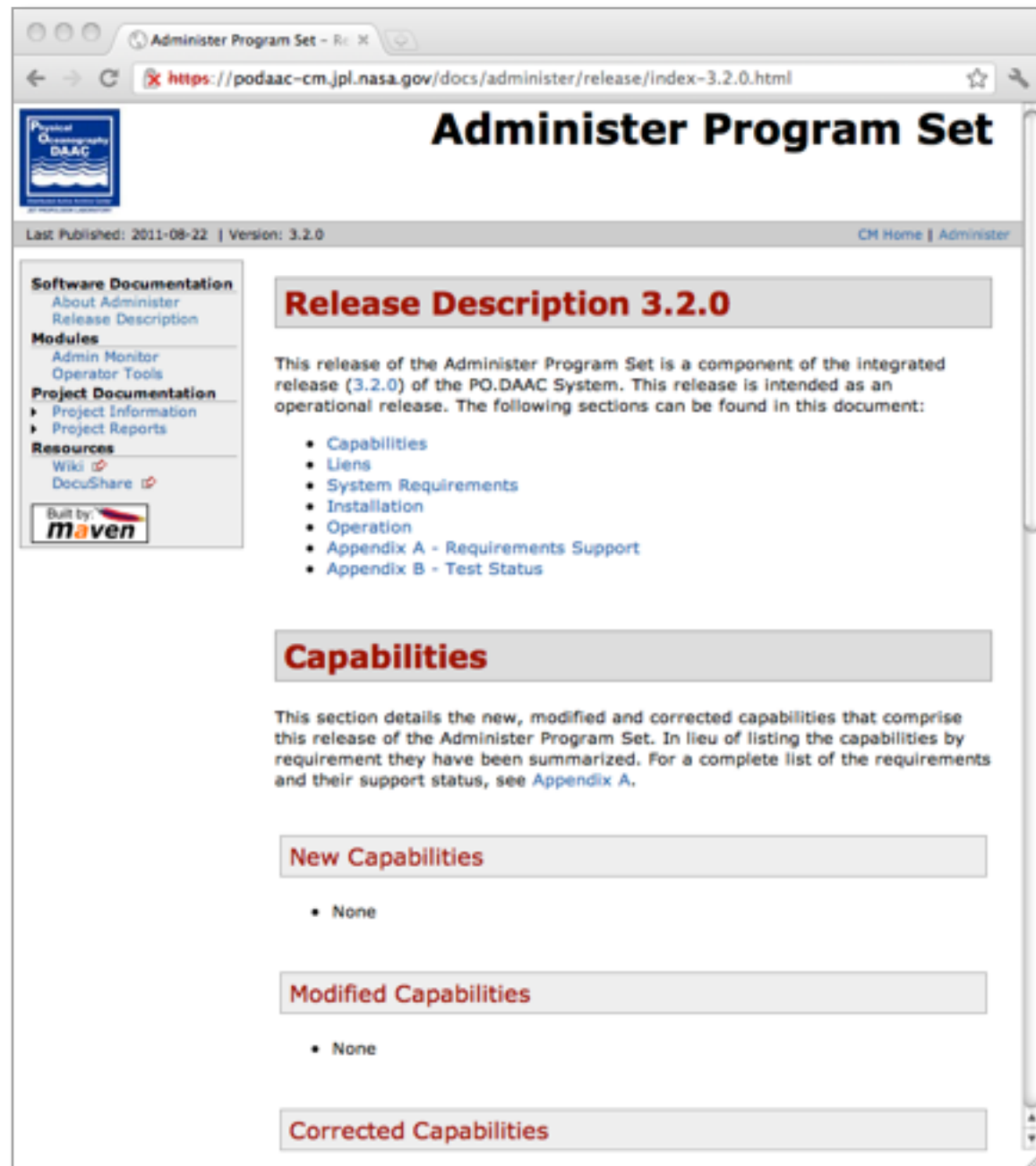
dōjō



- Trac [1078](#) - Need uniform maven repository for DEV vs CM build for non-PO.DAAC jar files
- Trac [1097](#) - Upgrade to Groovy 1.7.8 and Grails 1.3.7
- Trac [1111](#) - Upgrade to dojo 1.6
- Trac [1120](#) - Upgrade to use Java 1.6.0 update 27



Administer

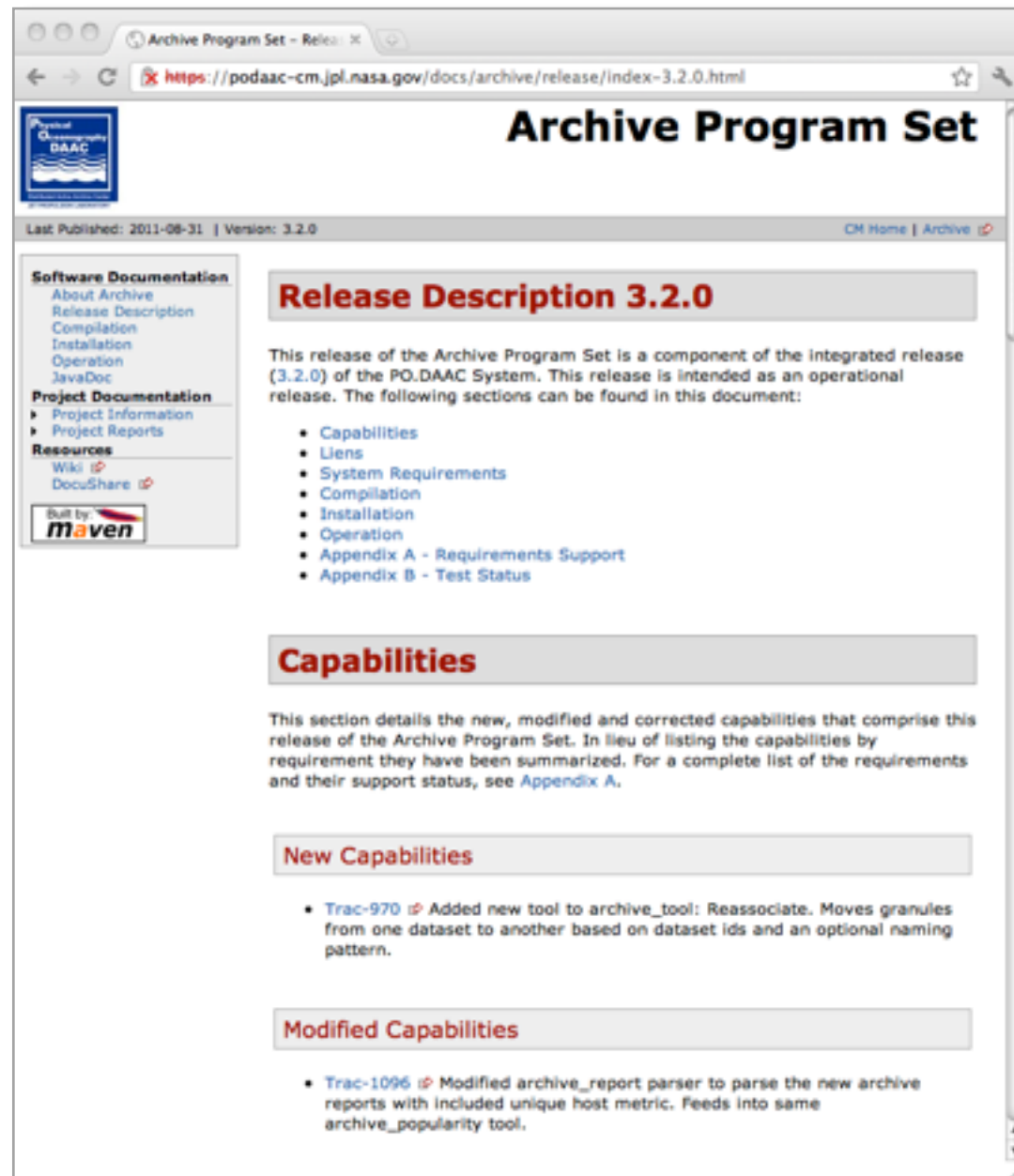


The screenshot shows a web browser window with the address bar displaying <https://podaac-cm.jpl.nasa.gov/docs/administer/release/index-3.2.0.html>. The page title is "Administer Program Set". On the left, there is a navigation menu with sections: "Software Documentation" (containing "About Administer" and "Release Description"), "Modules" (containing "Admin Monitor" and "Operator Tools"), "Project Documentation" (containing "Project Information" and "Project Reports"), and "Resources" (containing "Wiki" and "DocuShare"). Below the menu is a "Built by: maven" logo. The main content area has a header "Release Description 3.2.0" and a paragraph stating: "This release of the Administer Program Set is a component of the integrated release (3.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:". Below this is a bulleted list of sections: Capabilities, Liens, System Requirements, Installation, Operation, Appendix A - Requirements Support, and Appendix B - Test Status. Further down, there is a section titled "Capabilities" with a paragraph: "This section details the new, modified and corrected capabilities that comprise this release of the Administer 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](#)." Below this are three sections: "New Capabilities" with a bulleted list containing "None", "Modified Capabilities" with a bulleted list containing "None", and "Corrected Capabilities" which is currently empty.

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



Archive



- **New Capabilities**

- Trac [970](#) - new OPS tool to re-associate existing granule from one dataset to another

- **Modified Capabilities**

- Trac [1096](#) - Extract unique host metric for archive popularity

- **Corrected Capabilities**

- Trac [1033](#) - fix archive_tool.sh -delete option to handle access type simulated and location policy type archive-simulated
- Trac [1074](#) - archive_tool verify should not change state from deleted to missing if verify is run on rolled off data



Common

Common Program Set - Release 3.2.0

https://podaac-cm.jpl.nasa.gov/docs/common/release/index-3.2.0.html

Common Program Set

Last Published: 2011-08-22 | Version: 3.2.0

CH Home | Common

Release Description 3.2.0

This release of the Common Program Set is a component of the integrated release (3.2.0) 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

- N/A

Modified Capabilities

- N/A

Corrected Capabilities

- N/A

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



Data Handlers



- **New Capabilities**

- Trac [871](#) - Jason-1 TRSR1280
- Trac [1083](#) - Use OCSI to query for dataset/granule metadata and to create FGDC
- Trac [1085](#) - Set optional officialName for possible versioning

- **Modified Capabilities**

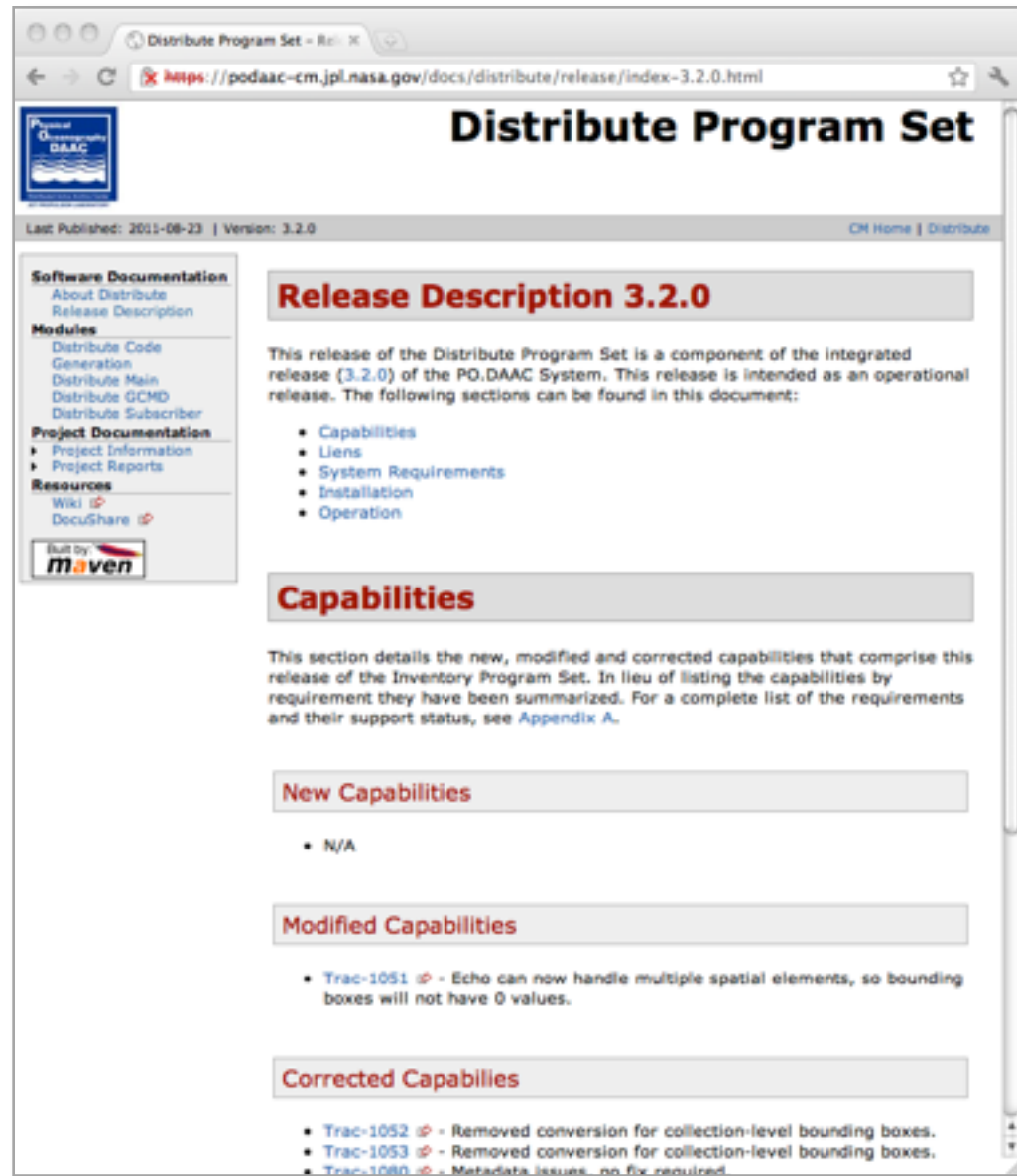
- none

- **Corrected Capabilities**

- Trac [1051](#) - Zero-valued ECHO bounding boxes for ASCAT data
- Trac [1069](#) - GHRSSST Website's MMR search function has multiple 'High' risk vulnerabilities
- Trac [1080](#) - Aquarius Data Sets ECHO Problems
- Trac [1081](#) - Determining MODIS daily data dates



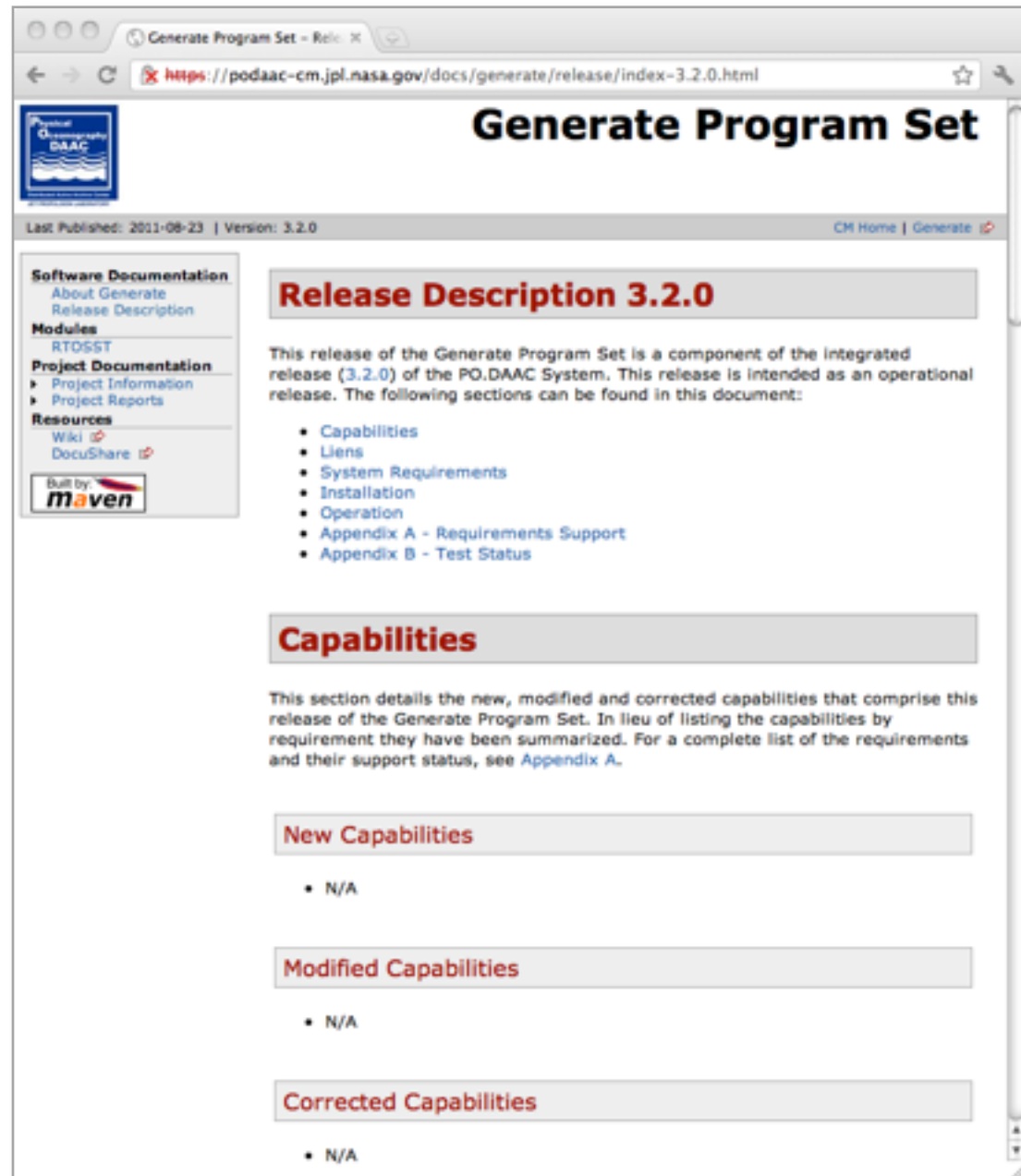
Distribute



- **New Capabilities**
 - none
- **Modified Capabilities**
 - Trac 1051 - Zero-valued ECHO bounding boxes for ASCAT data
- **Corrected Capabilities**
 - Trac 1052 - Zero-valued ECHO bounding boxes for Merged Altimeter Data
 - Trac 1053 - Bad ECHO collection bounding box for ASCAT-L2-Costal
 - Trac 1080 - Aquarius Datasets ECHO Problems



Generate



The screenshot shows a web browser window with the address bar displaying <https://podaac-cm.jpl.nasa.gov/docs/generate/release/index-3.2.0.html>. The page title is "Generate Program Set". Below the title, it says "Last Published: 2011-08-23 | Version: 3.2.0". On the left side, there is a navigation menu with links for "Software Documentation", "Modules", "Project Documentation", and "Resources". The main content area has a section titled "Release Description 3.2.0" which states: "This release of the Generate Program Set is a component of the integrated release (3.2.0) of the PO.DAAC System. This release is intended as an operational release. The following sections can be found in this document:" followed by a list of links: Capabilities, Liens, System Requirements, Installation, Operation, Appendix A - Requirements Support, and Appendix B - Test Status. Below this is a section titled "Capabilities" which states: "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](#)." Underneath the "Capabilities" section are three sub-sections: "New Capabilities", "Modified Capabilities", and "Corrected Capabilities", each containing a single bullet point: "• N/A".

Generate Program Set

Last Published: 2011-08-23 | Version: 3.2.0

Release Description 3.2.0

This release of the Generate Program Set is a component of the integrated release (3.2.0) 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 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

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



Ingest

Ingest Program Set - Release: 3.2.0

<https://podaac-cm.jpl.nasa.gov/docs/ingest/release/index-3.2.0.html>

Ingest Program Set

Last Published: 2011-08-23 | Version: 3.2.0

CM Home | Ingest

Release Description 3.2.0

This release of the Ingest Program Set is a component of the integrated release (3.2.0) of the PO.DAAC System. This release is intended as an operational release.

Building on capabilities delivered in the last release, this release focuses on improving the overall reliability of the Ingest 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 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

N/A

Modified Capabilities

- Trac-1097 - Upgraded to Groovy 1.7.8

Corrected Capabilities

- **New Capabilities**
 - none
- **Modified Capabilities**
 - Trac 1097 - Upgrade to Groovy 1.7.8 and Grails 1.3.7
- **Corrected Capabilities**
 - none



Inventory



• New Capabilities

- Trac 613 - Need visibility on what DE modified via the DMT
- Trac 985 - new data_class and access_type
- Trac 1051 - Zero-valued ECHO bounding boxes for ASCAT data
- Trac 1098 - Make inventory a RESTful web service

• Modified Capabilities

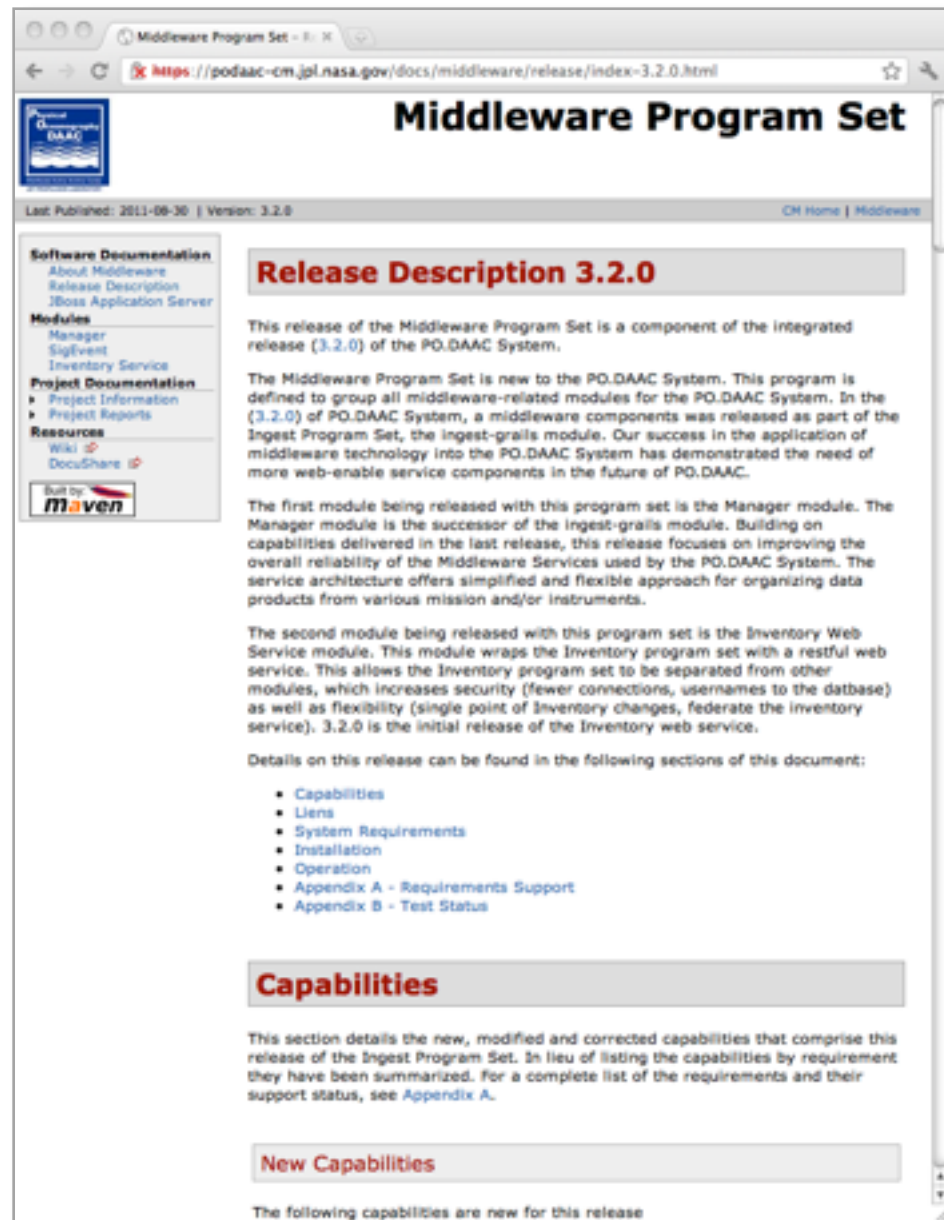
- Trac 1099 - Metadata manifest XML schema update to include 'diff' field
- Trac 1100 - Need database trigger to update GRANULE_META_HISTORY and LAST_REVISION_DATE fields.

• Corrected Capabilities

- none



Middleware



• New Capabilities

- Trac [917](#) - SIG EVENT: add capability to save customized view
- Trac [1098](#) - Make inventory a RESTful web service
- Trac [1101](#) - Manager and Sigevent support new Jason-1 datasets
- Trac [1102](#) - New web service API to Manager to support product type creation
- Trac [1103](#) - New web service API to SigEvent to support event group creation and retrieval
- Trac [1117](#) - Manager to monitor InventoryWS

• Modified Capabilities

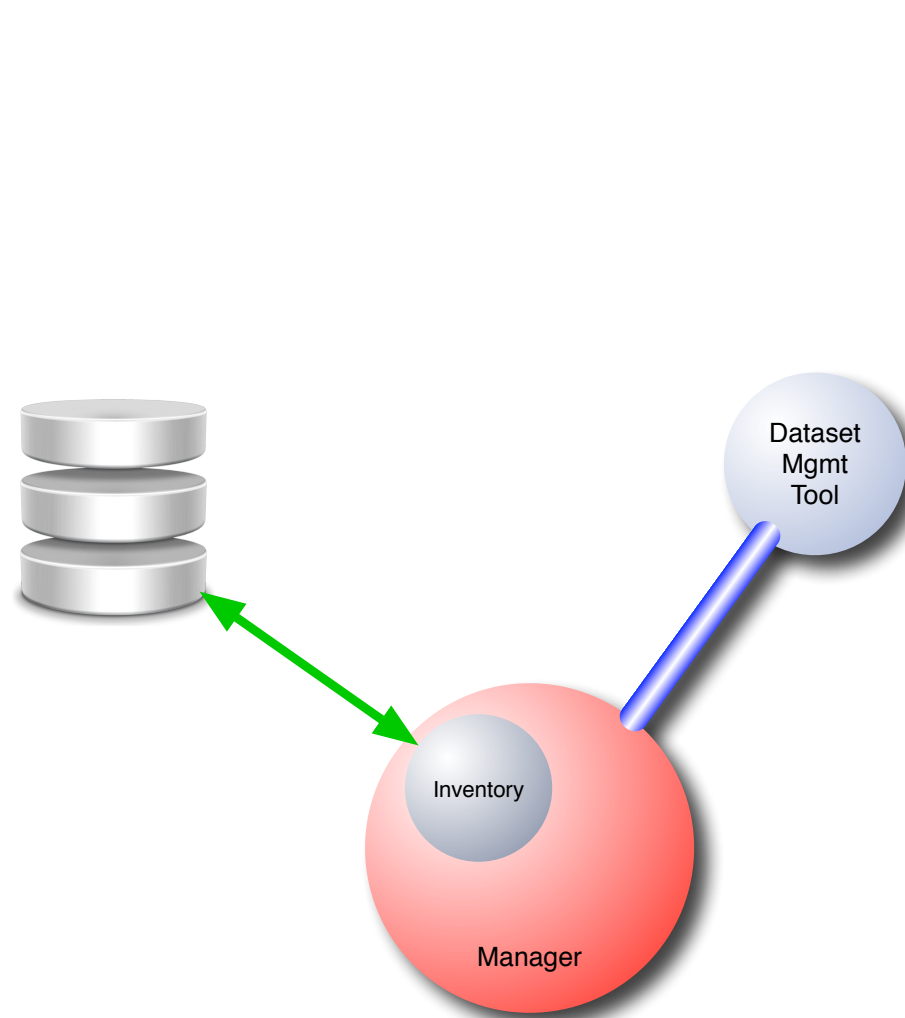
- Trac [1004](#) - SigEvent enhancement - Need reminder notification
- Trac [1104](#) - Manager to communicate with Inventory web service
- Trac [1109](#) - Remove JMS dependency from SigEvent

• Corrected Capabilities

- Trac [860](#) - DMAS manager OutOfMemoryError
- Trac [1003](#) - SigEvent enhancement - Resolved issue should clear notification to allow notification resent
- Trac [1093](#) - Product tuck in ARCHIVED/RESERVED during dev regression testing

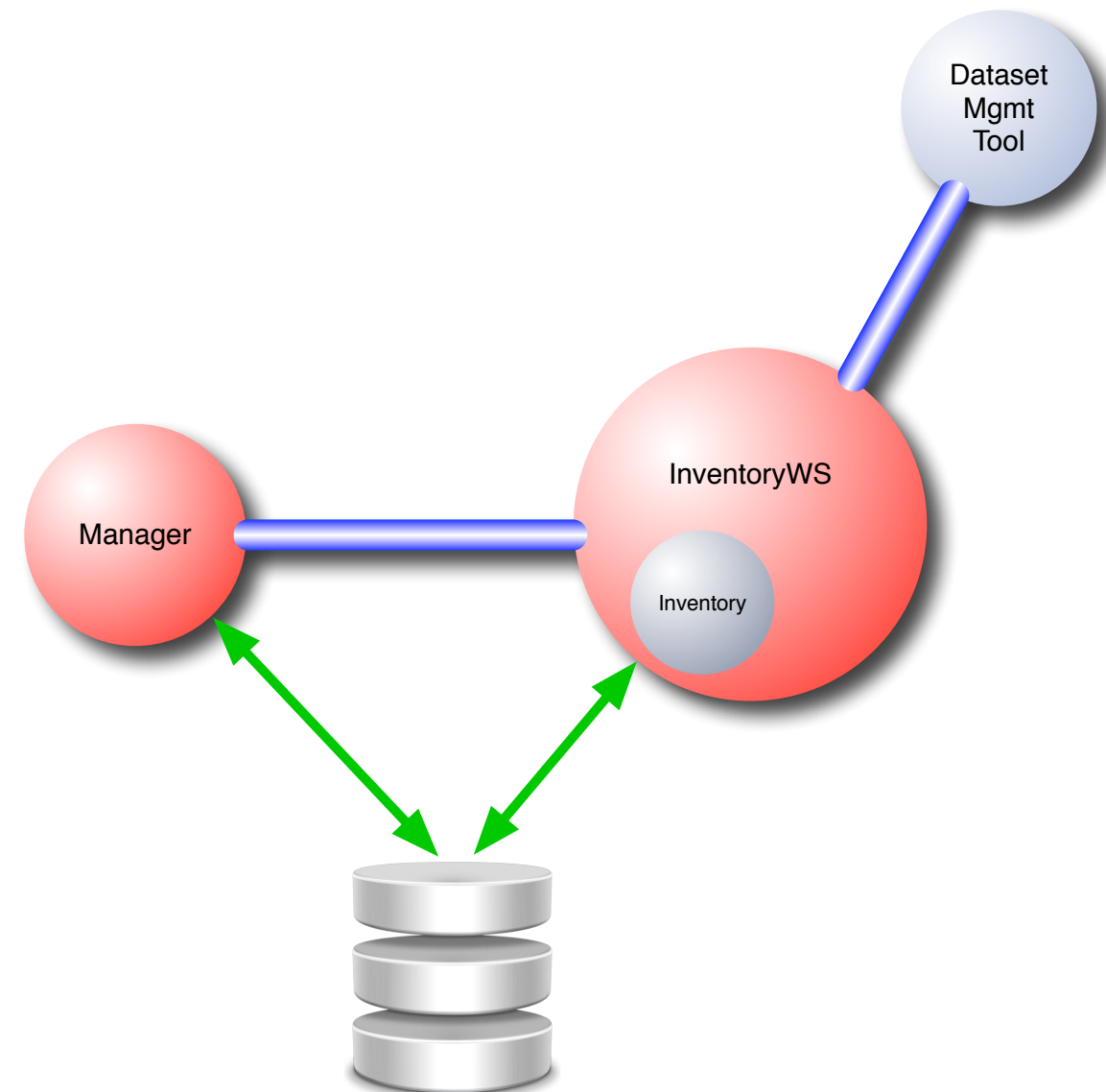


Inventory Web Service



Before

Heavy Manager load =
Slow DMT request handling




Now

- Post-Ingestion metadata update
- Create metadata without ingestion



Middleware: SigEvent





PO.DAAC Sig Event Viewer

Physical Oceanography DAAC

Managing Data to Enable Understanding and Stewardship of the Ocean

ABOUT PO.DAAC

Version 3.2.0
Logged in as: calarcon
Role: Administrator
Logout
[Save Settings](#)

Events | Notifications | Tab 1 | Tab 2

Search Events

Event Groups

☒ Info ☒ Warn ☒ Error

All Events

UNCATEGORIZE

DMAS

ABOM-L4HRfnd-A

ABOM-L4LRfnd-G

ALT_TIDE_GAUG

AQUARIUS_L0_S

AQUARIUS_L1A

AQUARIUS_L2_S

AQUARIUS_L3_S

AQUARIUS_L3_S

New Category

Page 1 of 2 |< < > >| [Copy to New Tab](#) [Refresh](#)

Category	Type	Source	Computer	Description	Last Received
LATENCY	ERROR	manager	lanina	ABOM-L4HRfnd-AUS-RAMSSA_09km: Products are overdue for 1183.04 hours	Thu Sep 01 2011 09:51:17 GMT-0700 (PDT)
LATENCY	ERROR	manager	lanina	ABOM-L4HRfnd-AUS-RAMSSA_09km: Products are overdue for 1182.04 hours	Thu Sep 01 2011 08:51:17 GMT-0700 (PDT)
LATENCY	ERROR	manager	lanina	ABOM-L4HRfnd-AUS-RAMSSA_09km: Products are overdue for 1181.04 hours	Thu Sep 01 2011 07:51:18 GMT-0700

This is the PO.DAAC Significant Event Viewer



OCSI



- **New Capabilities**

- Trac 1083 - Use OCSI to query for dataset/granule metadata and to create FGDC

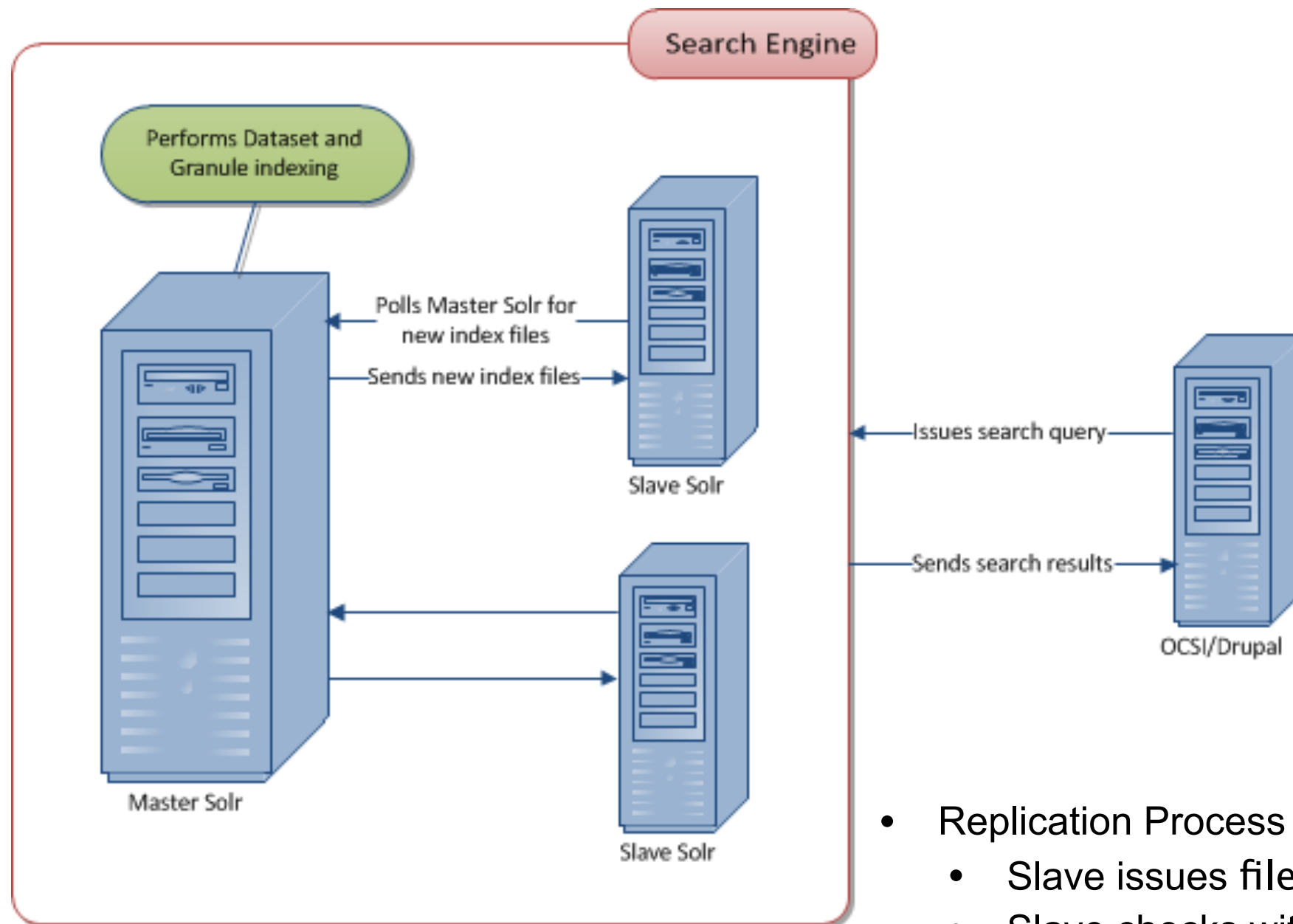
- **Modified Capabilities**

- Trac 1084 - OCSI: support for persistent/permanent ID
- Trac 1094 - OCSI search on format, status and processingLevel parameter should be case-insensitive

- **Corrected Capabilities**

- none

Solr: Master/Slave Model



- Replication Process
 - Slave issues filelist command to get list of files
 - Slave checks with its own index to see if it has an of those files and proceeds to download missing files
 - Slave downloads files into temp directory
 - New files are moved to slave's live index directory
 - Slave's ReplicationHandler issues commit command and new index is loaded



OCSI: FGDC Generation



```
// Groovy code
// File: s5.groovy
// Get FGDC records for GHRSSST L2P datasets that started after January 1, 2010
// for August 18, 2011

def download(output, address) {
    def file = new FileOutputStream(output)
    def out = new BufferedOutputStream(file)
    out << new URL(address).openStream()
    out.close()
}

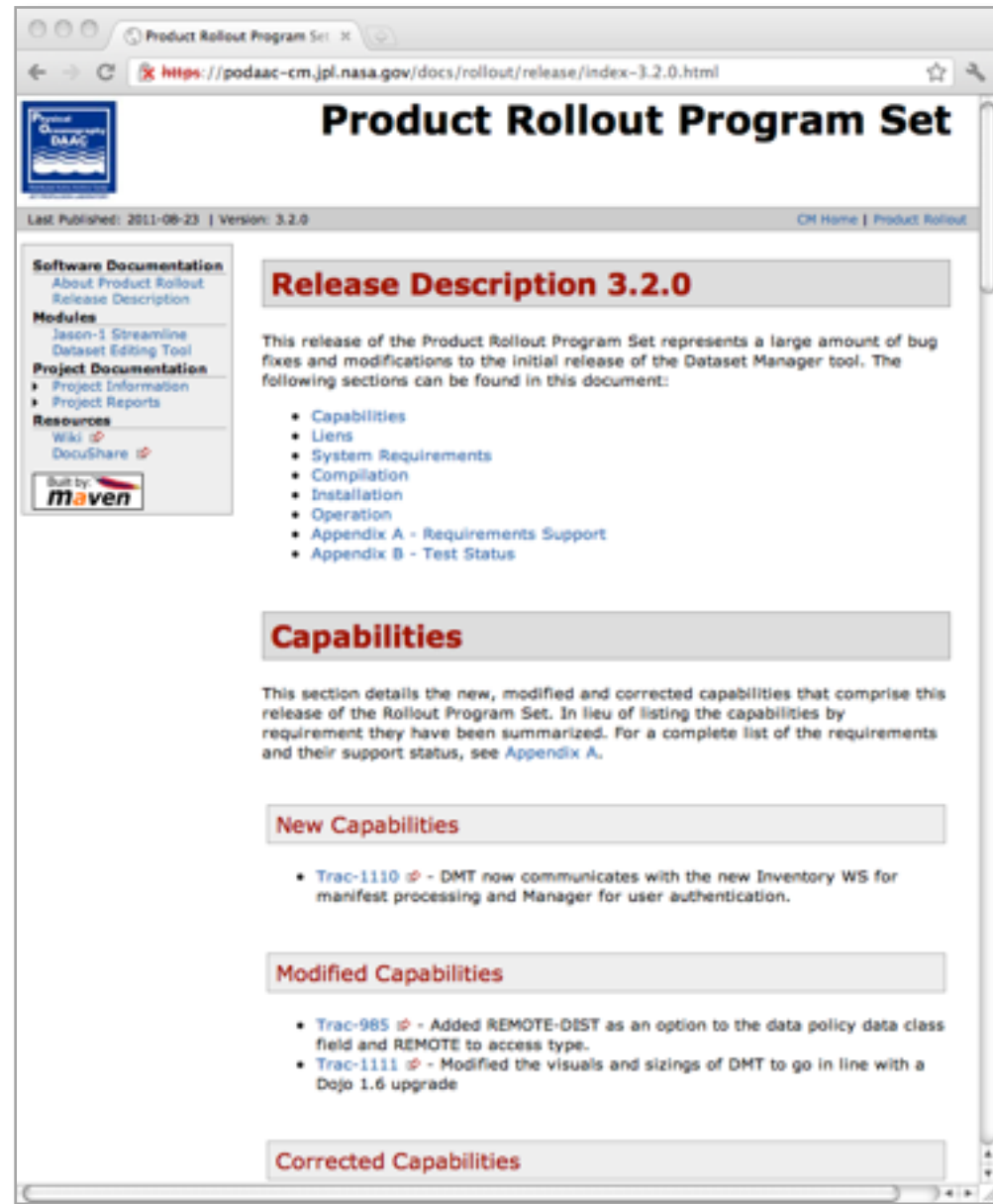
def url = 'http://seastorm.jpl.nasa.gov:8890/dataset/opensearch.atom?'
url += 'keyword=GHRSSST&processingLevel=2P&startTime=2010-01-01T00:00:00Z'
def xml = new XmlSlurper().parse(url)

xml.declareNamespace(
    podaac: "http://podaac.jpl.nasa.gov/opensearch/",
    openSearch: "http://a9.com/-/spec/opensearch/1.1/")

def items = xml.entry
items.each{node ->
    download((node.'podaac:Dataset-PersistentId').toString()+".xml",
        "http://seastorm.jpl.nasa.gov:8890/granule/fgdc?startTime=2011-08-18T00:00:00Z" +
        "&endTime=2011-08-18T23:59:59Z&dataset=${node.'podaac:Dataset-PersistentId'}")
    println "Downloaded ${node.'podaac:Dataset-PersistentId'}.xml"
}
```




Product Rollout



- **New Capabilities**

- Trac 1110 - DMT to communicate directly to Inventory web service

- **Modified Capabilities**

- Trac 985 - new data_class and access_type
- Trac 1111 - Dojo 1.6 upgrade

- **Corrected Capabilities**

- Trac 1048 - DMT: adding backslashes when apostrophe's are added



Product Rollout (cont.)

Dataset Manager Tool v3.2.0 calarcon

Modify Existing | Continue Previous | Copy From Existing | Create New

Perform edits on existing datasets and related information
Double click a dataset to edit

Search Datasets

ID	Short Name
558	AVHRR_PATHFINDER_L3_SST_55km_V4_DELETE
493	AVHRR_MIAMI_L3_18km_MCSST_DAYTIME_HDF
538	JASON-1_L2_OST_GDR_CNES_Ver-A
674	dsShortName
384	AQUARIUS_L3_WIND_SPEED_SMI_MONTHLY
225	OSDPD-L2P-MTSAT1R
598	TELLUS_GLDAS_MONTHLY_TXT
475	AQUARIUS_SIM_L3_WIND_SPEED_SMI_7DAY
96	SEASAT SMMR LEVEL 1B
302	AVHRR_PATHFINDER_L3_SST_DAILY_NIGHTTIME_V51
417	AQUARIUS_SIM_L3_SSS_SMI_ANNUAL
169	SEAWINDS LEVEL 2B AMSR
299	JASON-1_L2_OST_SSHA_Ver-C
127	NSCAT LEVEL 1.5
554	AVHRR_PATHFINDER_L3_SST_EQ_ANGLE_ALL_V4.1
482	GRACE_GSM_L2_GRAV_CSR_RL04
424	REYNOLDS_NCEP_L4_SST_HIST_RECON_MONTHLY_V2
247	MODIS_AQUA_L3_SST_TRENDL_MONTHLY_8KM_DAYTIME

Dataset Manager Tool v3.2.0 calarcon

Dataset

Dataset Region

Dataset Policy

Dataset Coverage

Dataset Element

Dataset Parameter

Project

Provider

Collection

Source/Sensor

Contact

Dataset Citation

Location Policy

Dataset Resource

Submit

Short Name:

Long Name:

Persistent Id:

Across Track Resolution (Meters):

Along Track Resolution (Meters):

Altitude Resolution:

Ascending Node Time:

Depth Resolution:

Description:

Ellipsoid Type:

Horizontal Resolution Range:

Latitude Resolution (Degrees):

Longitude Resolution (Degrees):

Keywords (Comma separated tags):

Original Provider:

Processing Level:

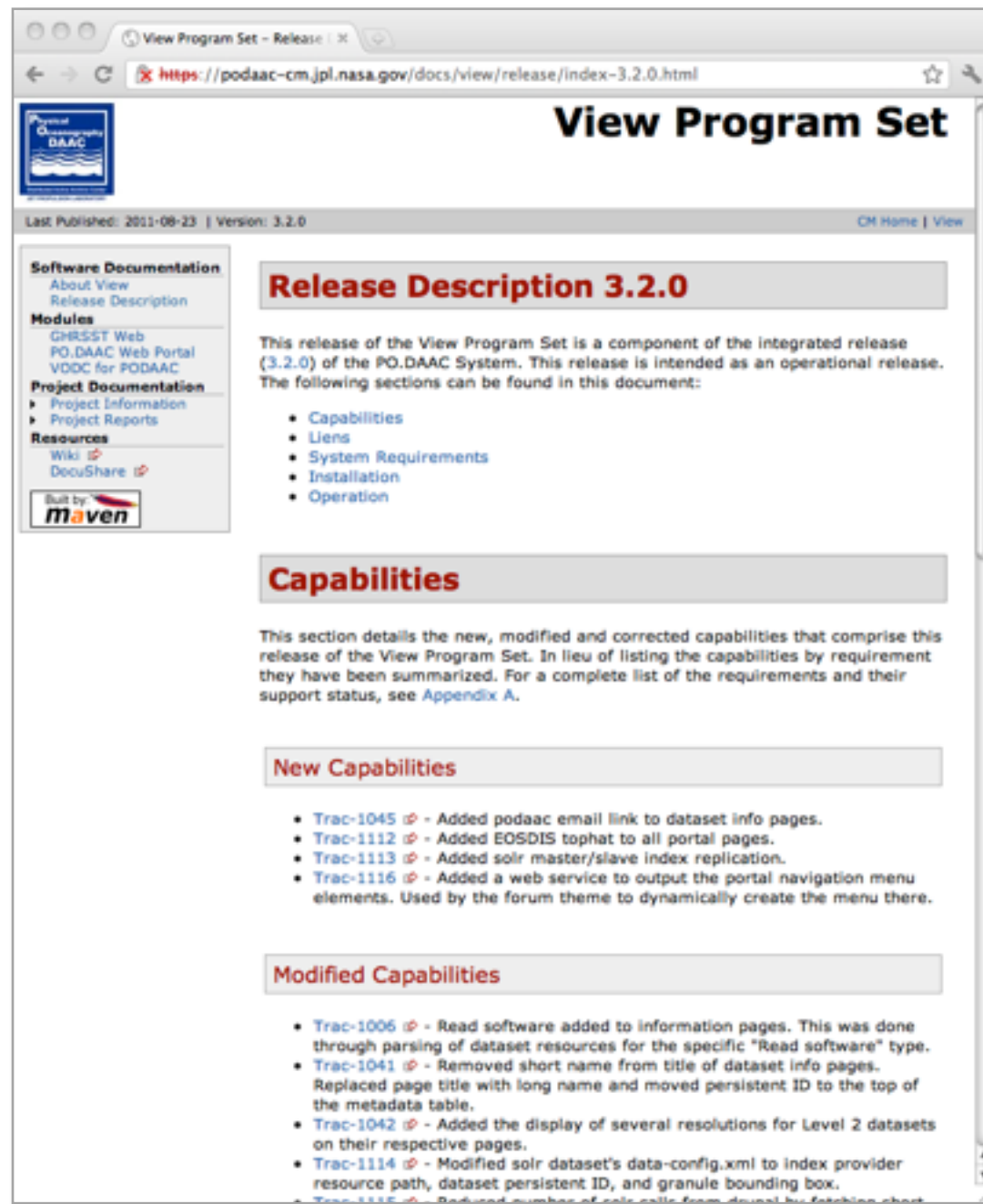
Projection Detail:

Christian Alarcon
Data Engineer

[Logout](#)



View



- **New Capabilities**

- Trac [1045](#) - General changes to web pages
- Trac [1112](#) - Add EOSDIS menu banner to all portal pages
- Trac [1113](#) - Solr to support master/slave replication
- Trac [1116](#) - Web service to sync navigation menus

- **Modified Capabilities**

- Trac [1006](#) - Recognizing 'Read Software' as Attribute in DMT Dataset Resource tab
- Trac [1041](#) - Remove Short Name and reorder
- Trac [1042](#) - Changes to the Resolution field
- Trac [1114](#) - Solr to index additional fields
- Trac [1115](#) - Reduce number of calls to Solrs

- **Corrected Capabilities**

- Trac [1065](#) - Resolving End-Characters of curly braces in Hyperlinks within Dataset Descriptions in Web Portal



Trac Summary

Trac	Originator	Title
613	cchen	Need visibility on what DE modified via the DMT
860	cchen	DMAS manager OutOfMemoryError
871	jhausman	Jason-1 TRSR1280
917	Irodrig	SIG EVENT: add capability to save customized view
970	cchen	new OPS tool to re-associate existing granule from one dataset to another
985	cchen	new data_class and access_type
1003	cchen	SigEvent enhancement - Resolved issue should clear notification to allow notification resent
1004	cchen	SigEvent enhancement - Need reminder notification
1033	Irodrig	fix archive_tool.sh -delete option to handle access type simulated and location policy type archive-simulated
1051	finch	Zero-valued ECHO bounding boxes for ASCAT data
1052	finch	Zero-valued ECHO bounding boxes for Merged Altimeter Data
1053	finch	Bad ECHO collection bounding box for ASCAT-L2-Coastal
1065	Irodrig	Resolving End-Characters of curly braces in Hyperlinks within Dataset Descriptions in Web Portal
1069	cchen	GHRSSST Website's MMR search function has multiple 'High' risk vulnerabilities
1074	Irodrig	archive_tool verify should not change state from deleted to missing if verify is run on rolled off data
1078	cchen	Need uniform maven repository for DEV vs CM build for non PO.DAAC jar files
1080	finch	Aquarius Data Sets ECHO Problems
1081	gfoti	Determining MODIS daily data dates
1083	qchau	Use OCSI to query for dataset/granule metadata and to create FGDC
1084	Irodrig	OCSI: support for persistent/permanent ID
1085	qchau	Set optional officialName for possible versioning
1093	nchung	Product stuck in ARCHIVED/RESERVED during dev regression testing
1094	nchung	OCSI search on format, status and processingLevel parameter should be case-insensitive
1096	thuang	Extract unique host metic for archive popularity
1097	thuang	Upgrade to Groovy 1.7.8 and Grails 1.3.7
1098	thuang	Make inventory a RESTful web service
1099	thuang	Metadata manifest XML schema update to include 'diff' field
1100	thuang	Need database trigger to update GRANULE_META_HISTORY and LAST_REVISION_DATE fields.
1101	thuang	Manager and Sigevent to support new Jason-1 datasets
1102	thuang	New web service API to Manager to support product type creation
1103	thuang	New web service API to SigEvent to support event group creation and retrieval
1104	thuang	Manager to communicate with Inventory web service
1109	thuang	Remove JMS dependency from SigEvent
1111	thuang	Dojo 1.6 upgrade
1117	thuang	Manager to monitor InventoryWS
1120	thuang	Upgrade to use Java 1.6.0 update 27

36 delivered

33 remain



**National Aeronautics and
Space Administration**
Jet Propulsion Laboratory
California Institute of Technology
Pasadena, California

JPL

