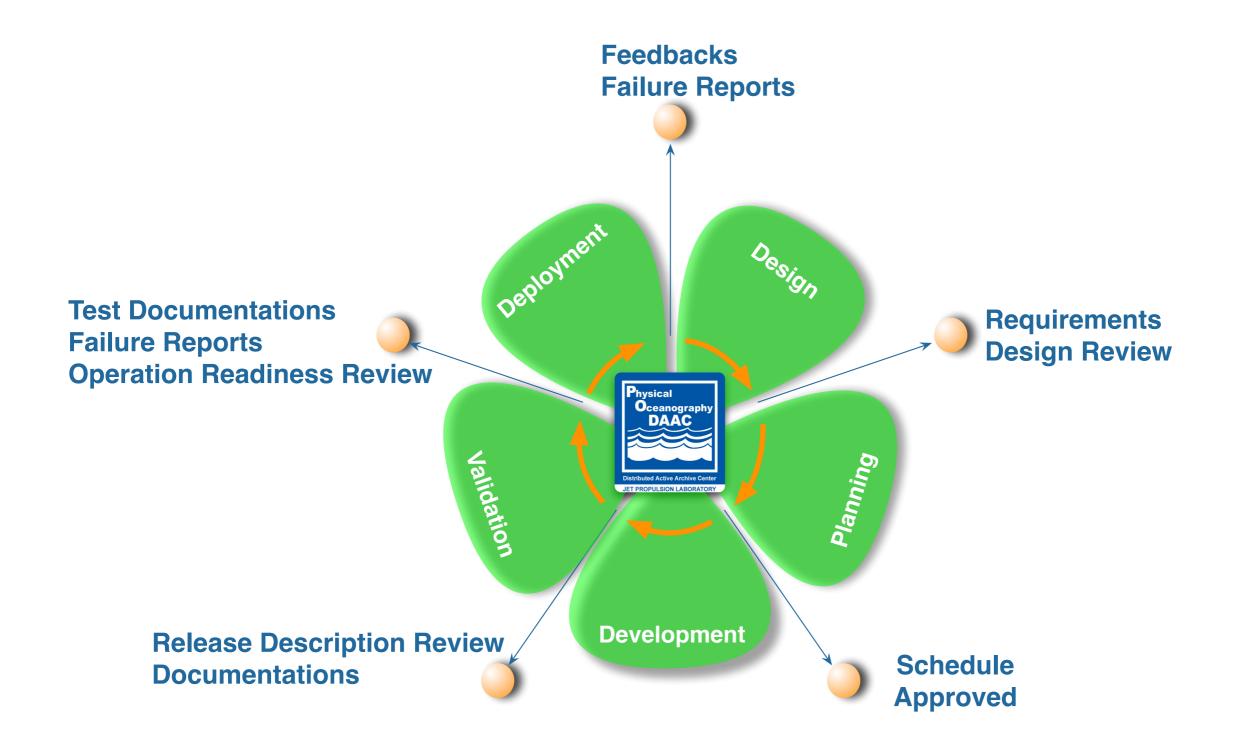




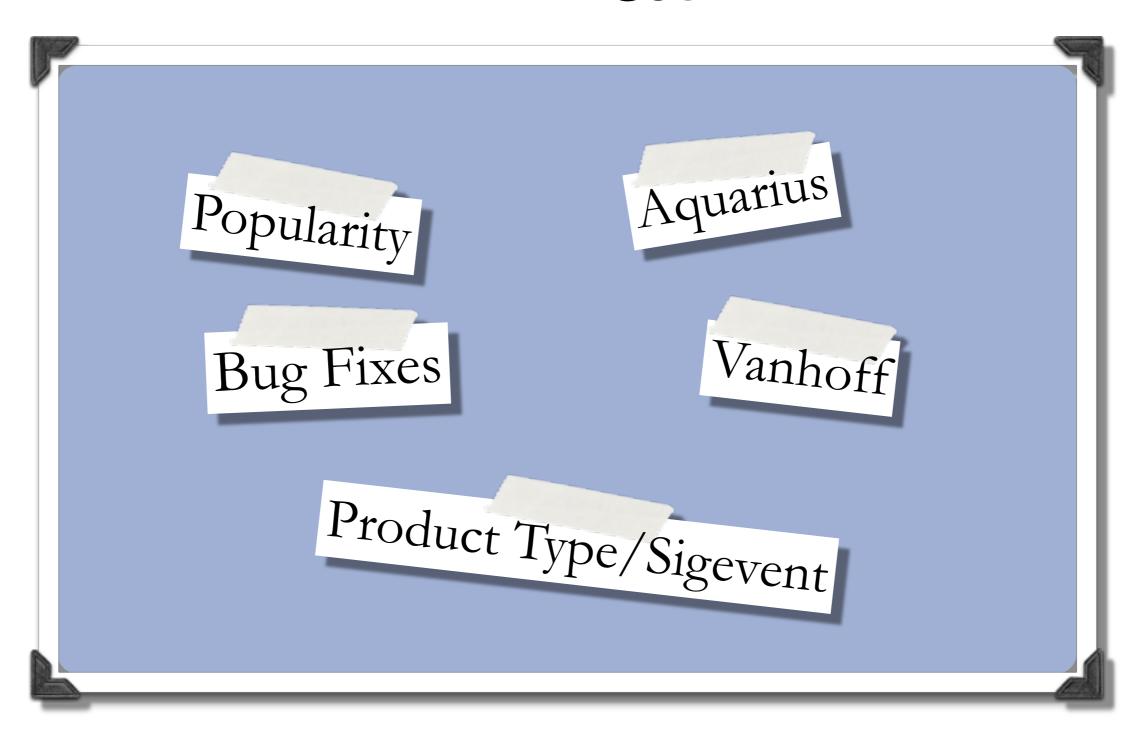
# System v2.1.1

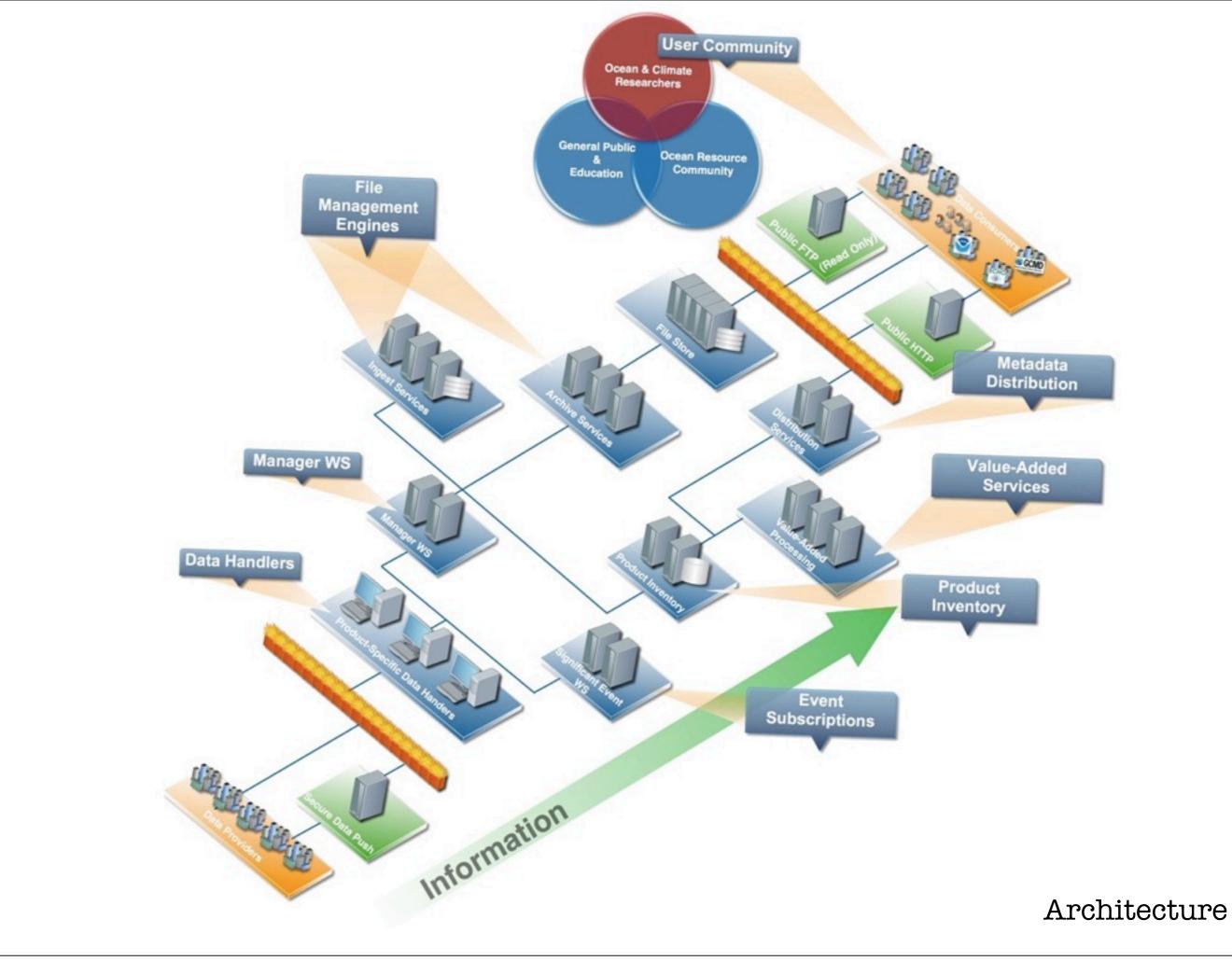
Release Description Document (RDD)
Review

Thomas Huang July 14, 2010

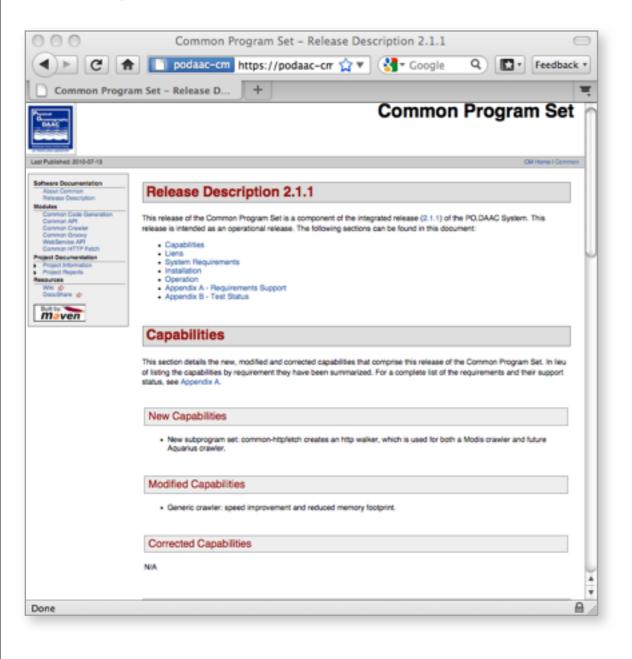


## What





## **Program Set: Common**



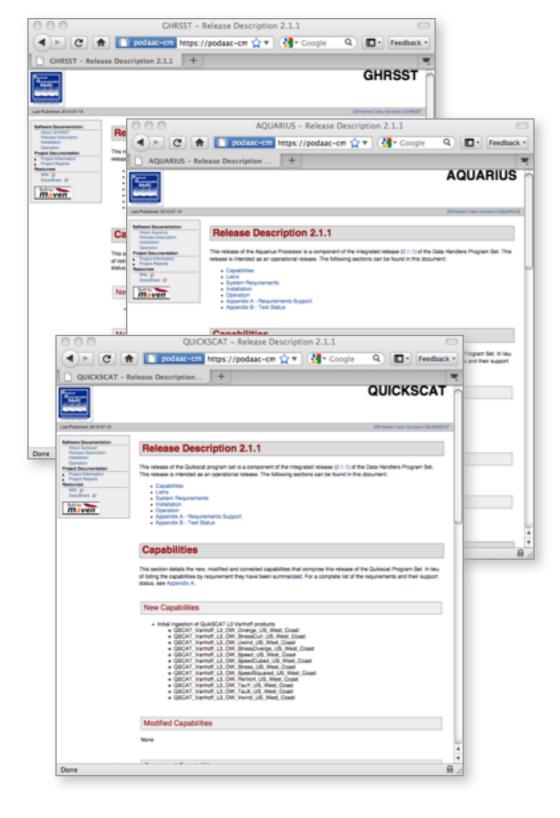
#### New Capabilities

New HTTP Data fetching library

#### Modified Capabilities

 Generic crawler updated to reduce memory footprint and improve data ingestion speed.

## **Program Set: Data Handlers**



#### GHRSST

- Corrected Capabilities
  - Trac 499 Update to GHRSST search page
  - Trac 504 New case for relax\_time\_check option of Ghrsst Data handler
  - Removed any leading directory name in granule name.
  - Fixed bug with the wrong type of image file in SIP and bug with compression type.

#### Aquarius

- Initial ingestion of the following datasets
  - AQUARIUS\_L2\_SSS
  - AQUARIUS\_L3\_SSS\_SMI\_DAILY
  - AQUARIUS L3 SSS SMI 8DAY
  - AQUARIUS L3 SSS SMI MONTHLY

#### QuikSCAT L3 Vanhoff

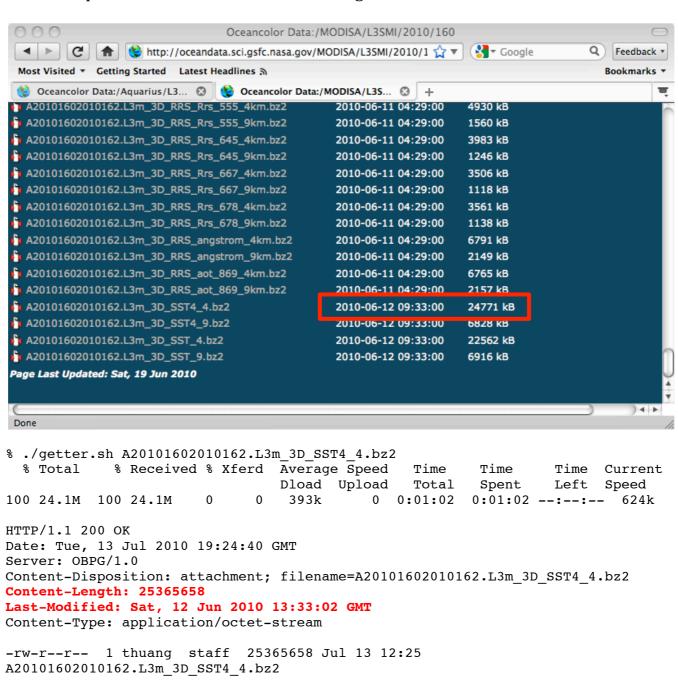
- Initial ingestion of the follow datasets
  - QSCAT\_Vanhoff\_L3\_OW\_Diverge\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_StressCurl\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_Uwind\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_StressDiverge\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_Speed\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_SpeedCubed\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_Stress\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_SpeedSquared\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_RelVort\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_TauY\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_TauX\_US\_West\_Coast
  - QSCAT\_Vanhoff\_L3\_OW\_Vwind\_US\_West\_Coast

#### Issue 1: General observation on Time and size issues

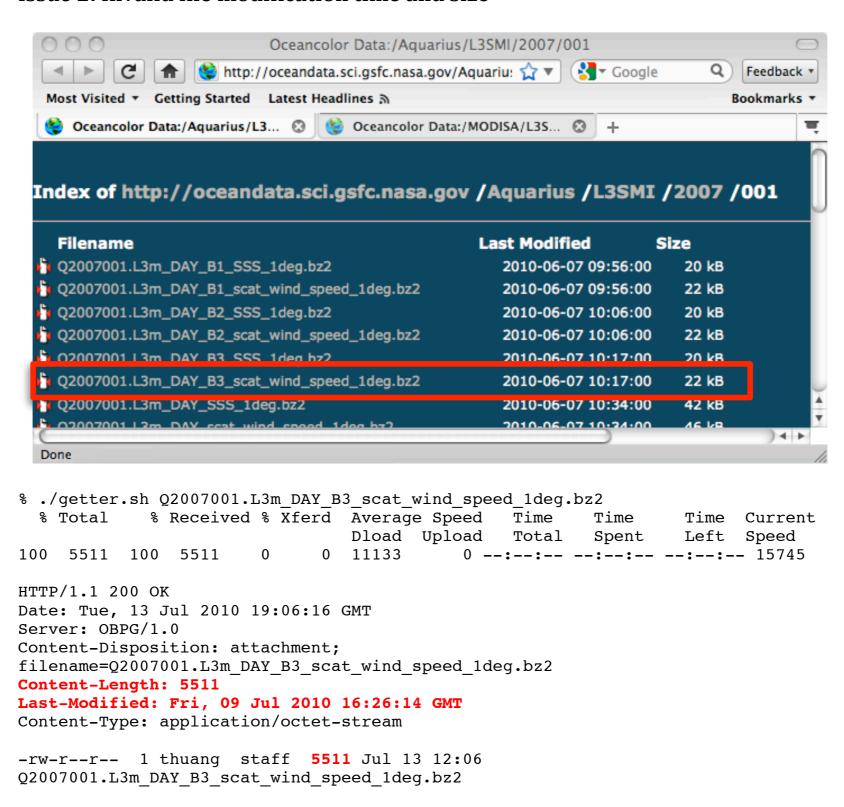
- It appears the 'Last Modified' time shown on the HTML page is of local time (i.e. Eastern time zone)
- The size of the file is rounded to the nearest kilobyte

#### Comments

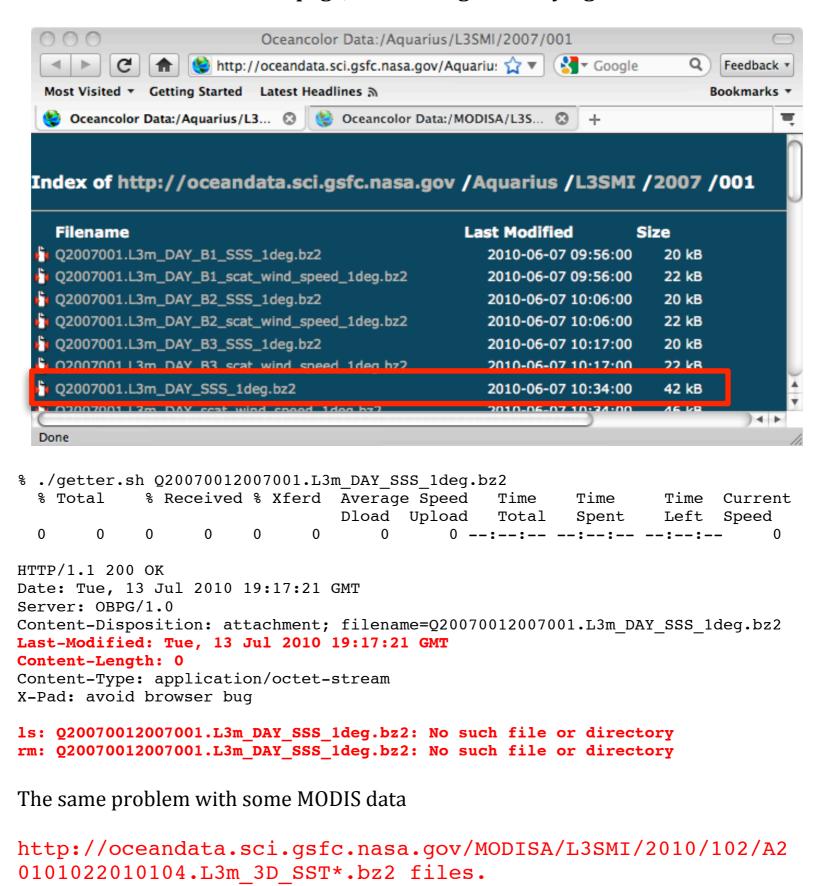
- We could perform the time conversion from Eastern Time Zone to GMT during ingestion. However, the Goddard site should consider using standard time value for scientific artifacts. At the minimum, the site should display Time Zone information.
- This size value is an issue, since the software can determine the exact size of the file unless either by physically download the file or by parsing the HTTP response header for the 'Content-Length'.



#### Issue 2: Invalid file modification time and size

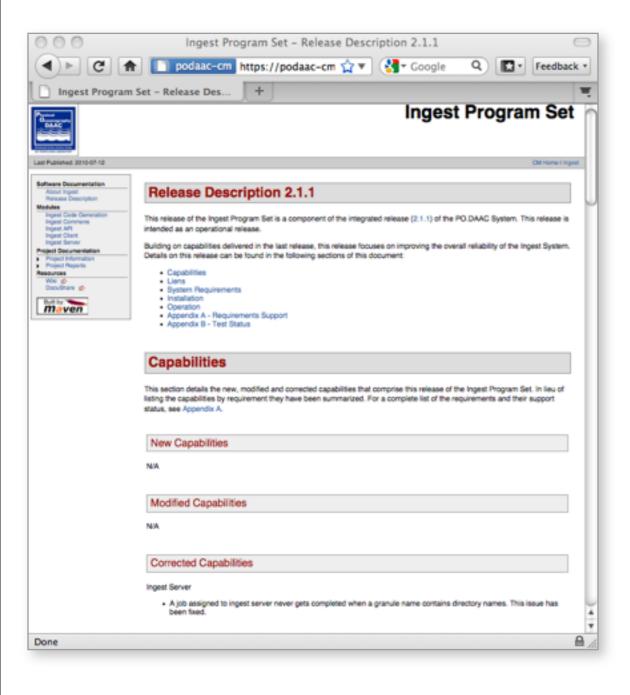


#### Issue 3: File listed on HTML page, but missing when trying to download



Wednesday, July 14, 2010

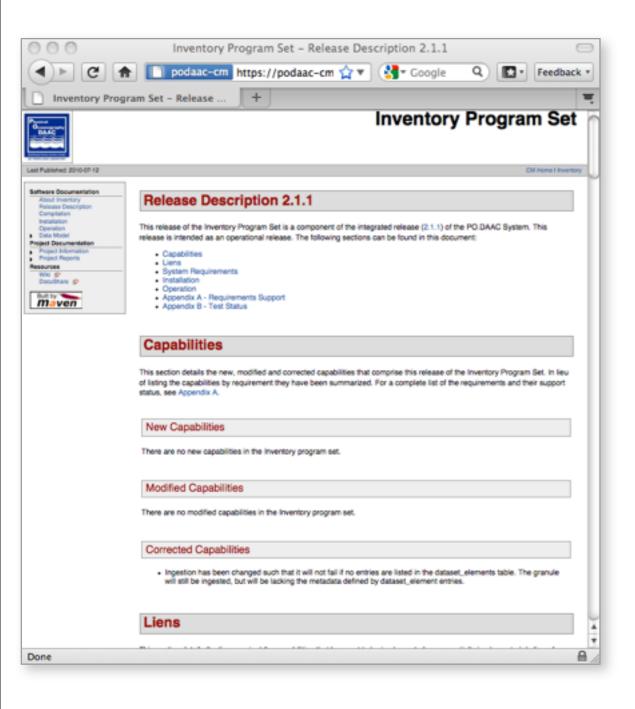
## **Program Set: Ingest**



#### Ingest Server

- Corrected Capabilities
  - A job assigned to ingest server never gets completed when a granule name contains directory names.

## **Program Set: Inventory**



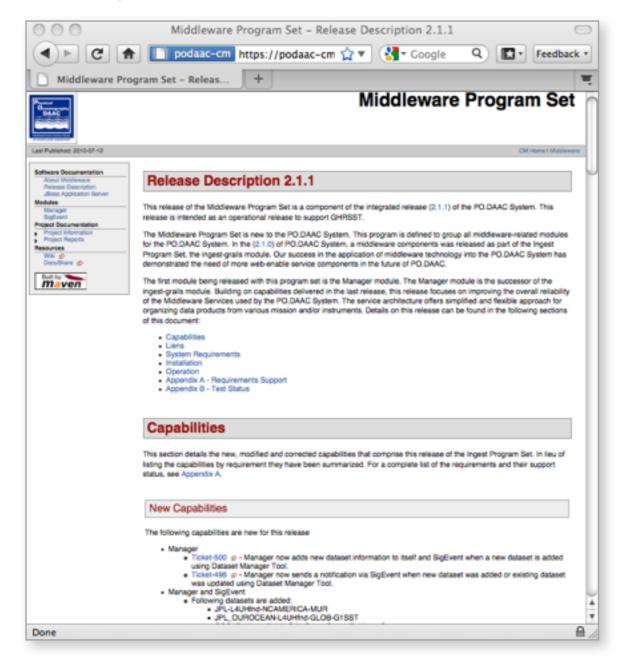
#### Corrected Capabilities

 Ingestion has been changed such that it will not fail if no entries are listed in the dataset\_elements table. The granule will still be ingested, but will be lacking metadata defined by the dataset\_element entries.

#### **Action Item:**

The Dataset Manager Tool still needs to be updated to allow DEs to specify granule-level data element. A ticket will be created for this missing feature.

## **Program Set: Middleware**



#### New Capabilities

#### Manager WS

 Trac 500 - Manager now adds new ingest product types and Sigevent category when new dataset is added using the Dataset Manager Tool

#### Manager WS and Sigevent WS

 Added support for Aquarius, Vanhoff, and the new GHRSST datasets.

#### Modified Capabilities

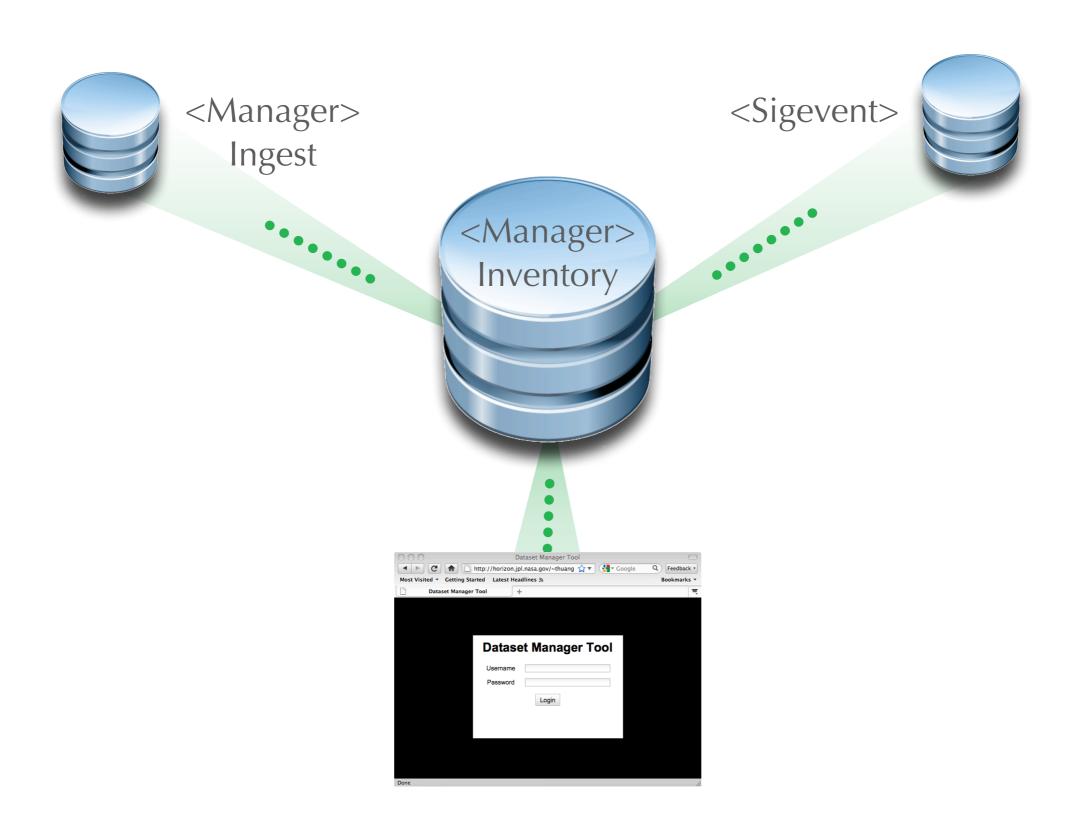
#### Manager WS and Sigevent WS

 GHRSST ingest product types have been renamed to drop the GHRSST- prefixe. The product types are now the same as dataset short names.

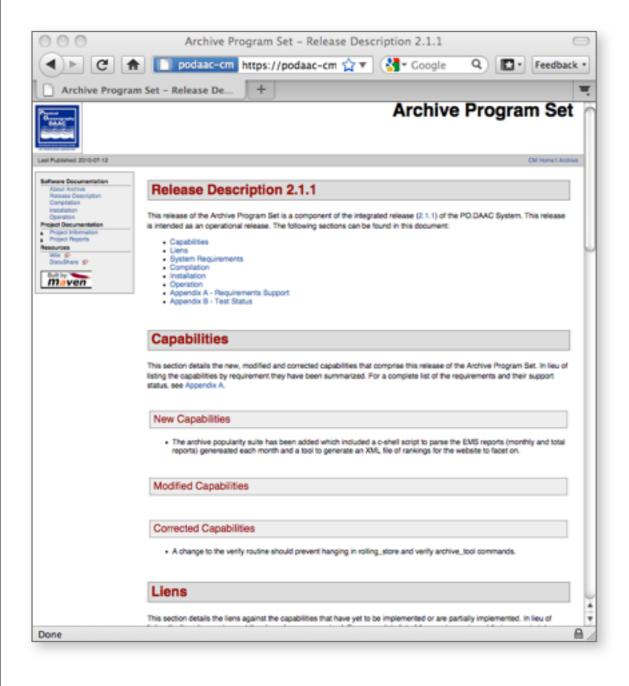
#### Corrected Capabilities

 Trac 511 - A bug was found in the 1.4.2 to 2.0.0 SQL time conversion routine. An SQL patch file has been provided to correct this issue

## **Automation - Creation of Product Type and Sigevent Category**



## **Program Set: Archive**



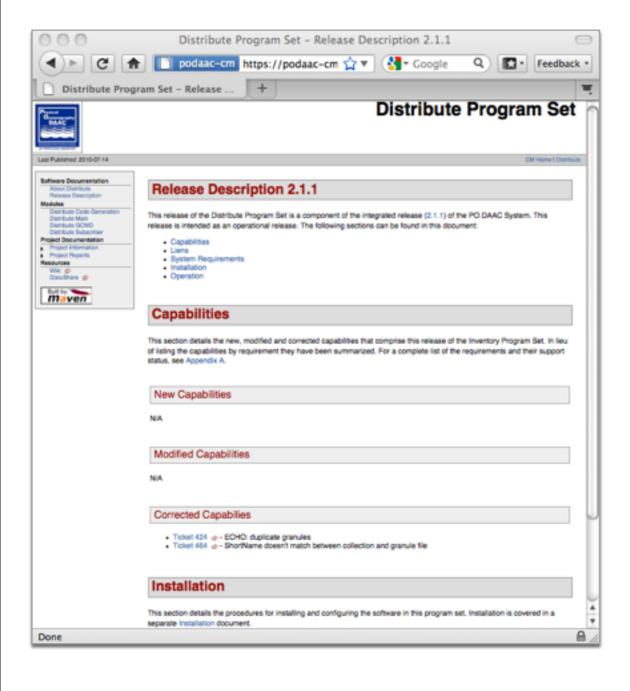
#### New Capabilities

 The archive popularity suite has been added which included a C-shell script to parse the EMS reports (monthly and total reports) generated each month and a tool to generate an XML file of rankings for the Solr index generation.

#### Corrected Capabilities

 Updated the verify routine to prevent hanging in rolling\_store and verify archive\_tool commands.

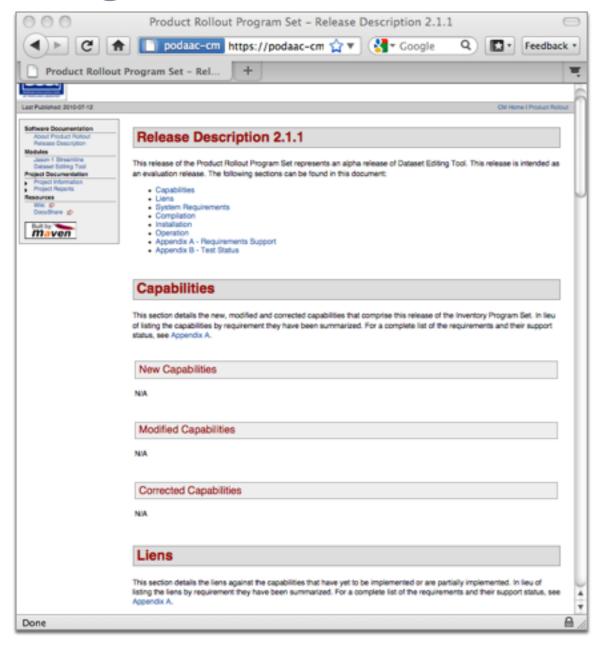
## **Program Set: Distribute**



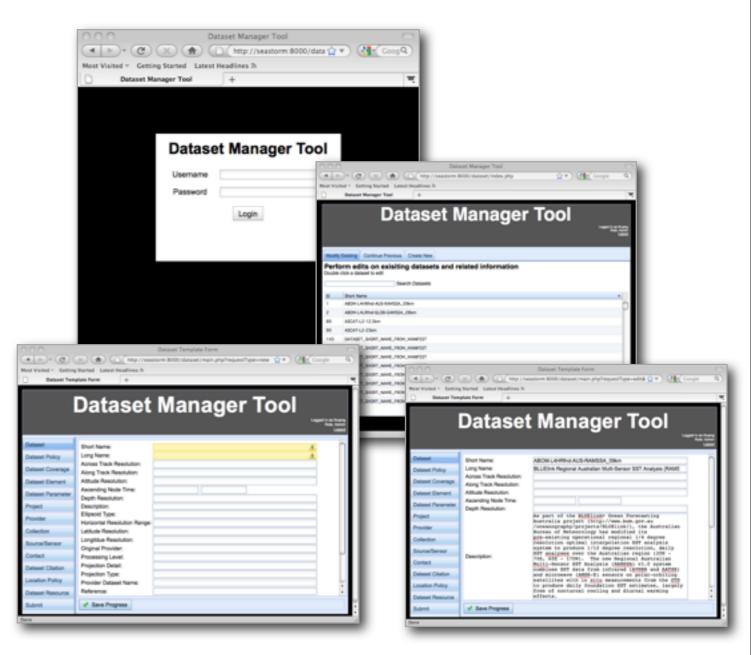
#### Corrected Capabilities

- Trac 426 ECHO: duplicate granules
- Trac 464 ShortName doesn't match between collection and granule file

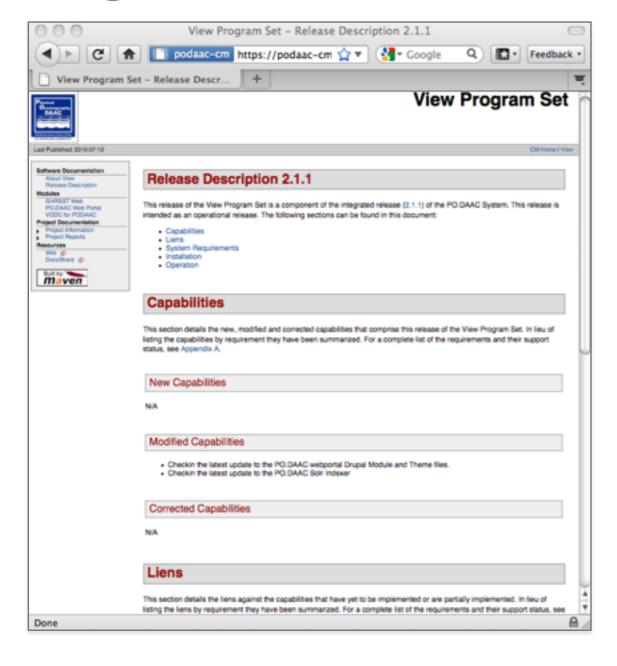
## **Program Set: Product Rollout**



No significant changes



## **Program Set: View**



#### Modified Capabilities

- Checkin the latest updates to the PO.DAAC web portal Drupal Module and Theme files.
- Checkin the latest update to the PO.DAAC Solr indexer

#### Work-in-progress

http://seastorm.jpl.nasa.gov:8000/drupal

### Internal Review

## List of Closed Trac Tickets

Num	Title
<u>378</u>	GHRSST specific remove noaa symlink after granule rolled off
<u>424</u>	ECHO: duplicate granules
<u>464</u>	ShortName doesn't match between collection and granule file
<u>498</u>	Dataset manager Tool - submit notification
<u>499</u>	Update to GHRSST search page
<u>500</u>	add new datasets to non-inventory tables
<u>504</u>	New case for relax_time_check option of Ghrsst Data handler
<u>511</u>	incorrect time values for non-inventory tables
<u>512</u>	Add missing Product IDs in collections to support dataset popularity

