625-EED-003, Rev. 03

EOSDIS Evolution and Development (EED) Contract

Training Material for the EED Contract
Volume 3: Data Pool Ingest

Revision 03

September 2014

Raytheon Company
Riverdale, Maryland

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Volume 3: Data Pool Ingest

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September 2014

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CDRL Item # 023

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Preface

This document is a formal contract deliverable. It requires Government review and approval within 45 business days. Changes to this document will be made by document change notice (DCN) or by complete revision.

Any questions should be addressed to:

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Abstract

This is Volume 3 of a series of lessons containing the training material for the Earth Observing System Data and Information System (EOSDIS) Evaluation and Development (EED) Contract. This lesson provides a detailed description of the process for configuring and monitoring SIPS data ingested into ECS.

***Keywords**:* training, instructional design, course objective, Ingest, Release 8.3

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Introduction

Identification

Training Material Volume 3 is part of Contract Data Requirements List (CDRL) Item 23, which is a required deliverable under the Earth Observing System Data and Information System (EOSDIS) Evaluation and Development (EED) Contract (NNG10HP02C).

Scope

Training Material Volume 3 describes the process and procedures for ingest of data into the system. This lesson is designed to provide the operations staff with sufficient knowledge and information to satisfy all lesson objectives.

Purpose

The purpose of this Student Guide is to provide a detailed course of instruction that forms the basis for understanding Ingest. Lesson objectives are developed and will be used to guide the flow of instruction for this lesson. The lesson objectives will serve as the basis for verifying that all lesson topics are contained within slide presentation material.

Status and Schedule

This lesson module provides detailed information about training for the current baseline of the system. Revisions are submitted as needed.

Organization

This document is organized as follows:

Introduction:	The Introduction presents the document identification, scope, purpose, and organization.
Related Documentation:	Related Documentation identifies parent, applicable and information documents associated with this document.
Student Guide:	The Student Guide identifies the core elements of this lesson. All Lesson Objectives and associated topics are included. The Student Guide consists of a slide presentation and is used by the instructor during the presentation of this lesson.

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Related Documentation

Parent Documents

The parent documents are the documents from which the EED Training Material's scope and content are derived.

	Statement of Work for EOSDIS Evolution and Development Contract
423-CDRD-002	Contract Data Requirements Document for EED Task 02 ECS SDPS Maintenance

Applicable Documents

The following documents are referenced within this EED Training Material, or are directly applicable, or contain policies or other directive matters that are binding upon the content of this document:

423-46-01	Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) Science Data Processing System (EMD F&PRS)

Information Documents

Information Documents Referenced

The following documents are referenced herein and amplify or clarify the information presented in this document. These documents are not binding on the content of the EED Training Material.

609-EED-001, Rev. 03	Release 8.3 Operations Tools Manual for the EED Contract
611-EED-001, Rev. 03	Release 8.3 Mission Operation Procedures for the EED Contract

Information Documents Not Referenced

The following documents, although not referenced herein and/or not directly applicable, do amplify or clarify the information presented in this document. These documents are not binding on the content of the EED Training Material.

305-EED-001, Rev. 03	Release 8.3 Segment/Design Specification for the EED Contract.
311-EED-001, Rev. 03	Release 8.3 INGEST (INS) Database Design and Schema Specifications for the EED Contract.
311-EED-002, Rev. 03	Release 8.3 Order Manager Database Design and Database Schema Specifications for the EED Contract.
311-EED-003, Rev. 03	Release 8.3 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EED Contract.
311-EED-005, Rev. 03	Release 8.3 Archive Inventory Management (AIM) Database Design and Schema Specifications for the EED Contract.

Ingest Overview

Lesson Overview

This lesson provides you with the process for Ingest status monitoring, use of Ingest operator tools and Ingest processing. It provides practical experience in using the tools you need for monitoring the ingest request history, monitoring/controlling current ingest requests status, setting ingest parameters, and managing ingest processing.

Lesson Objectives

Overall Objective - The overall objective of this lesson is for personnel involved in maintenance and operation of the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) to develop proficiency in the procedures that apply to data ingest.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision. 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revsion 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - The student will use the tools to perform ingest in accordance with the prescribed procedures without error.

Specific Objective 1 - The student will describe the ingest function, providing a general statement of the ingest responsibility in the system and an overview of the ingest process.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.2 Mission Operation Procedures for the EED Contract*.

Standard - The student will correctly state the ingest role in the system, state at several areas: ingest activities, identify types of ingest automated messages, identify categories of ingest, and identify types of data transfer for ingest.

Specific Objective 2 - The student will perform the steps involved in logging in to system hosts.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will log in to the specified host using secure shell and the specified user ID.

Specific Objective 3 - The student will perform the steps involved in launching the DPL Ingest GUI.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will log in to the appropriate host using secure shell and launch the ECS Ingest GUI in the specified mode.

Specific Objective 4 - The student will perform the steps involved in monitoring and controlling SIPS ingest requests.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student0 will select the Data Pool Ingest GUI Monitoring tab, select the appropriate set of ingest requests to monitor, observe ingest request processing, resume/cancel requests as directed, and respond to questions concerning the current status of ingest requests.

Specific Objective 5 - The student will perform the steps involved in viewing the history of ingest requests using the Data Pool Ingest GUI.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Historical Requests tab; select the specified time range, data provider, data type, and/or final request status; select the specified type of report (i.e., Detailed Report or Summary Report); and respond to questions concerning the history log report.

Specific Objective 6 - The student will perform the steps involved in monitoring and controlling Provider Status.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 003, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select the appropriate set of ingest providers to monitor, observe ingest providers resume/cancel requests as directed, and respond to questions concerning the current status of ingest providers.

Specific Objective 7 - The student will perform the steps involved in monitoring File System Status.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select Files System Status and resume a File System as directed.

Specific Objective 8 - The student will perform the steps involved in monitoring Transfer Host Status.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select and review Transfer Host Status.

Specific Objective 9 - The student will perform the steps involved in monitoring ECS Service Status.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Monitoring tab, select and review Transfer Host Status and suspend/resume service host.

Specific Objective 10 - The student will perform the steps involved in reviewing ingest requests with Open Interventions.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Interventions & Alerts tab, select the Alerts.

Specific Objective 11 - The student will perform the steps involved in reviewing Alerts.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Interventions & Alerts tab, select the Alerts and review/clear alerts. .

Specific Objective 12 - The student will perform the steps involved in configuring a Data Provider.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing provider or add a new provider.

Specific Objective 13 - The student will perform the steps involved in configuring a Data Type.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing data type or add a new data type.

Specific Objective 14 - The student will perform the steps involved in configuring a Transfer Host

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing Transfer Host or add a new Transfer Host.

Specific Objective 15 - The student will perform the steps involved in configuring a File System.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing File System or add a new File System.

Specific Objective 16 - The student will perform the steps involved in configuring an ECS service.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing ECS Service or add a new ECS Service.

Specific Objective 17 - The student will perform the steps involved in performing Global Tuning.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing Global Parameter.

Specific Objective 18 - The student will perform the steps involved in configuring a Volume Group.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Configuration tab, modify an existing Volume Group or add a new Volume Group.

Specific Objective 19 - The student will perform the steps involved in Generating a Report.

Condition - The student will be given a workstation console with access to the Data Pool Ingest graphical user interface (GUI) tools, a copy of 609-EED-001 Revision 03, *Release 8.3 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 03, *Release 8.3 Mission Operation Procedures for the EED Contract*.

Standard - In accordance with the lesson content, the applicable procedure, and the statement of requirements the student will select the Data Pool Ingest GUI Report tab, generate a Report.

Importance

This lesson provides students who will be Ingest Technicians at the Distributed Active Archive Centers (DAACs) with the knowledge and skills needed for effective ingest of data. It ensures development of operational capability that optimizes ingest performance to realize the potential for reliability, availability, maintainability, and security in data receipt and placement in the storage hierarchy. It provides thorough preparation for the following Ingest functions (among others):

- Automated polling ingest.
- Monitoring/controlling ingest request processing.
- Adjusting ingest tunable parameters.
- Troubleshooting and recovering from ingest problems.

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Slide Presentation

Slide Presentation Description

The following slide presentation represents the slides used by the instructor during the conduct of this lesson.

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Ingest

September 2014

Raytheon

Overview

- **Objectives**
- **Ingest Concepts:**
  - System Context Diagram
  - DPL Ingest Subsystem
  - Ingest Activities
  - Logging into System Hosts
  - Launching the Data Pool Ingest GUIs
  - Monitoring Data Pool Ingest
  - Monitoring Data Pool Ingest Status
  - Interventions & Alerts
  - Modifying DPL Ingest Configuration Parameters
  - Understanding Help
  - ECS Collections Groups

Objectives

- **OVERALL:**
  - **To develop proficiency in the procedures that apply to Ingest operations.**
- **SPECIFIC:**
  - **Describe the Ingest function, including a generalization of the Ingest responsibility in the system and the process overview.**
  - **Perform Ingest related procedural steps for:**
    - logging into the system host.
    - launching the DPL Ingest web GUI.
    - monitoring and controlling Ingest requests.
    - viewing the Ingest historical information.
    - verifying the archiving of ingested data.
    - modifying external data provider information.
    - modifying Ingest subsystem parameters.

Objectives (cont.)

- **STANDARDS:**
  - **Lesson content (procedures in the lesson).**
  - **Mission Operation Procedures for the EED Project (611-EED-001).**

Ingest Concept

- **Data Pool Architectural Context**
  - **Data Pool Ingest (DPL-Ingest) subsystem is the system's point-of-entry for ingestion of data from external data providers.**
  - **The Order Management (OM) Service:**
    - Manages all distribution services.
    - Accepts distribution requests from external interfaces (e.g., ECHO).
    - Implements distribution and staging policies (as configured by DAACs).
  - **Data Pool (DPL) Service:**
    - Point-of-entry to the system for data from external data providers.
    - Requests staging operations for data not found in the SAN.
    - Interfaces with on-demand processing services, such as HEG (internal) and HEW (external).
    - Provides a web-based order status interface for users and a web-based Operator interface to manage distribution.

Ingest Context (cont.)

- **Data Pool Architectural Context (cont.)**
  - **Data Pool (DPL) Service (cont.):**
    - Accepts and applies Quality Assurance (QA) updates.
    - Maintains and exports collection and granule metadata.
    - Supports discovery, drill down searches, and direct data downloads via the Data Pool Web Application and Anonymous FTP Service.
  - **DPL Ingest Service:**
    - Implements ingest, archiving and staging policies as configured by the DAAC.
    - Dispatches pre-processing services to perform metadata extraction and format conversions and dispatches subscription services following ingest.
    - Manages all ingest, staging and archiving services.
    - Polls data and processes Ingest requests in accordance with ECS Interface Control Documents (ICDs).

Ingest Context (cont.)

- **Data Pool Architectural Context (cont.)**
  - **HEG Service:**
    - Accepts requests for subsetting, reformatting, and re-projection via the HEG Tool.
    - Dispatch HEG processes across platforms while performing load balancing and resource management.
    - Used by the DPL Service to perform routine pre-processing (e.g., format conversion) during ingest.
    - Used by the OM Service to perform on-demand processing during distribution.

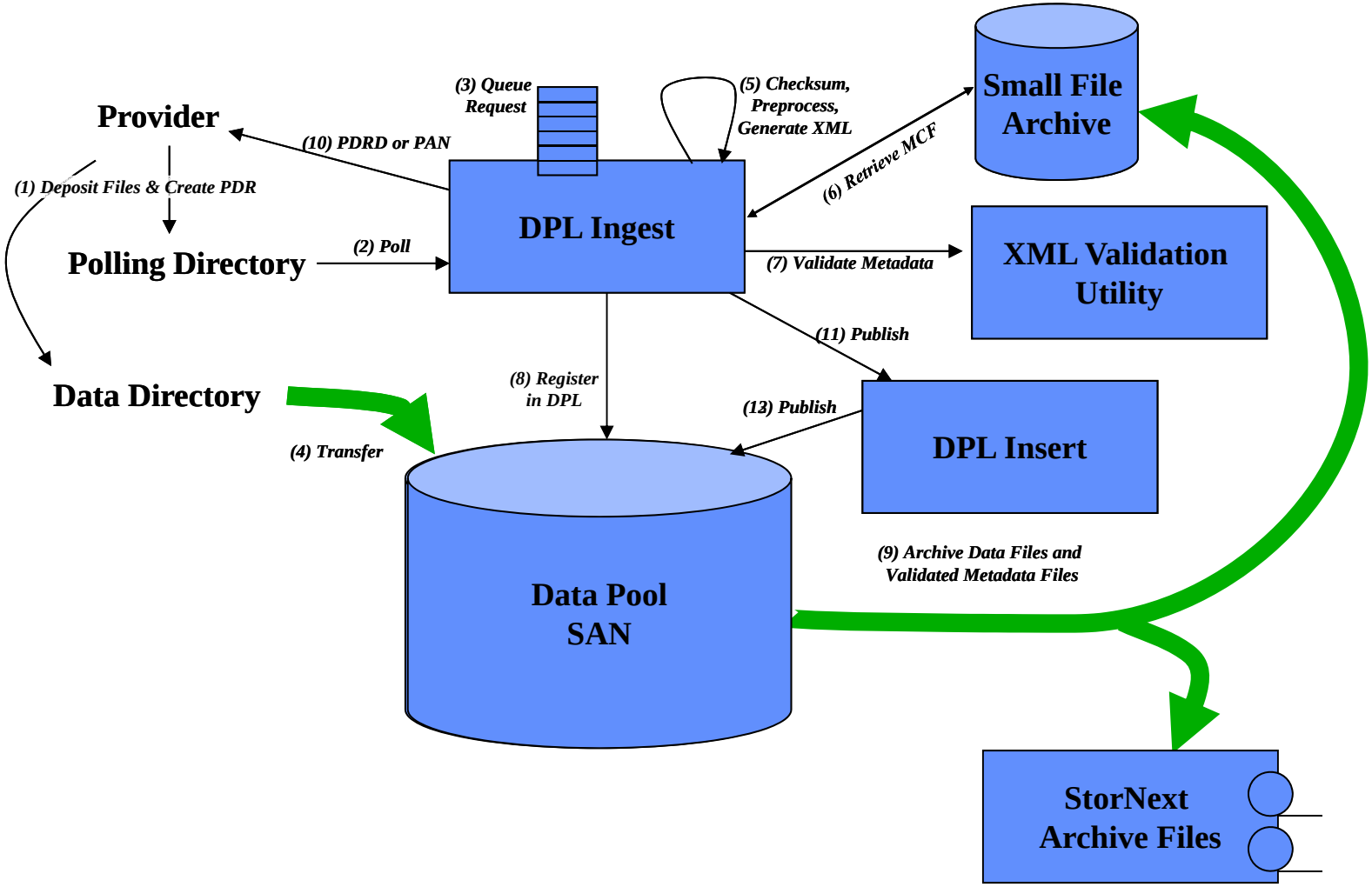
Ingest Context (cont.)

- **Data Pool Architectural Context (cont.)**
  - **Data Pool Storage:**
    - Consists of a Storage Area Network (SAN) that is accessible to all internal platforms for processing and distribution.
    - Provides a large disk cache for recent inserts and on-going operations, enabling up to several months worth of data to be buffered.
    - Implements data retention and migration policies as configured by the DAAC.
  - **Tape Archive:**
    - Provides tape storage for all archived data.
    - Accessed only by the DPL Ingest Service during archiving or staging.

Ingest Context (cont.)

- **Data Pool Architectural Context (cont.)**
  - **Inventory Database:**
    - Tracks all archived granules.
    - Contains a reduced set of metadata (metadata needed only to support Data Pool web) searches and ingest processing.
    - Complete metadata for each granule stored in metadata files in XML.
    - All metadata files are kept on disk.

DPL Ingest Subsystem



DPL Ingest Subsystem (cont.)
Functionality

- **The DPL Ingest Subsystem:**
  - **The component used to get data from external data providers into the system via the DPL Ingest GUI.**
  - **Used for SIPS (Science Investigator-Led Processing Systems), S4P, Aster, Secure Copy (SCP) and cross-DAAC ingest.**
  - **Supports the ingest protocol known as 'Polling with Delivery Record' and 'Polling without Delivery Record'.**
  - **SIPS providers place their data and Product Delivery Record (PDR) files into a polling directory.**
    - The directory can be local, e.g., accessible via a mount point or remote (i.e., accessible via FTP, SCP or HTTP).

DPL Ingest Subsystem
DPL Ingest Service

- **DPL Ingest Service:**
  - Provide ability for the SIPS providers to utilize the polling directory either locally or remote, as configured by the DAAC.
  - Queues Ingest requests for all PDRs in polling directories and checks available resources to decide order in which valid PDR is processed (based on DAAC configurations).
  - Performs granule files copy into the Data Pool SAN, using hidden directories, unless the DAAC requested that the data be published on insert.
  - Preprocessing events include checksum verification and translation of ODL files to XML (as needed).
  - For non-SIPS ESDTs, Ingest will retrieve the MCF from a configured location in the Small File Archive.

DPL Ingest Subsystem
DPL Ingest Service (cont.)

- **DPL Ingest Service (cont.)**
  - Validates incoming granule metadata using the XML Validation Utility. The validated science XML metadata will be copied to a location in the StorNext Archive.
  - The Data Pool Ingest Utility (DPIU) registers the granule in the Inventory database.
  - The DPIU then copies the granules to the StorNext Archive. This may involve a copy to both a primary and backup archive depending on how the ESDT is configured for archiving.

DPL Ingest Subsystem
DPL Ingest Service (cont.)

- **DPL Ingest Service (cont.)**
  - Once all granules within the PDR are completed, the provider is notified of the outcome, which could be immediately via Product Delivery Discrepancy Report (PDRD) if PDR validation failed, or later via a short or long Product Acceptance Notification (PAN).
  - If the ESDT is configured for public Data Pool insert, associated granules are made public in the Data Pool.

Data Pool Ingest web GUI

- **Data Pool Ingest web GUI**
  - **Provides capabilities:**
    - Monitor ingest requests and errors.
    - Respond to ingest requests for operator intervention and alerts.
    - Enter configuration information related to providers, polling locations, and the handling of data collections.

System Hosts Login

- **Logging in to system hosts is accomplished from a UNIX command line prompt.**
  - **It is an initial set of steps that is performed when accomplishing many other Ingest tasks.**
- **Procedure:**
  - Access the **command shell**.
  - **Set the DISPLAY** environmental variable.
  - **Log into the specified host** using secure shell and the specified user ID.

Data Pool Ingest
Launching

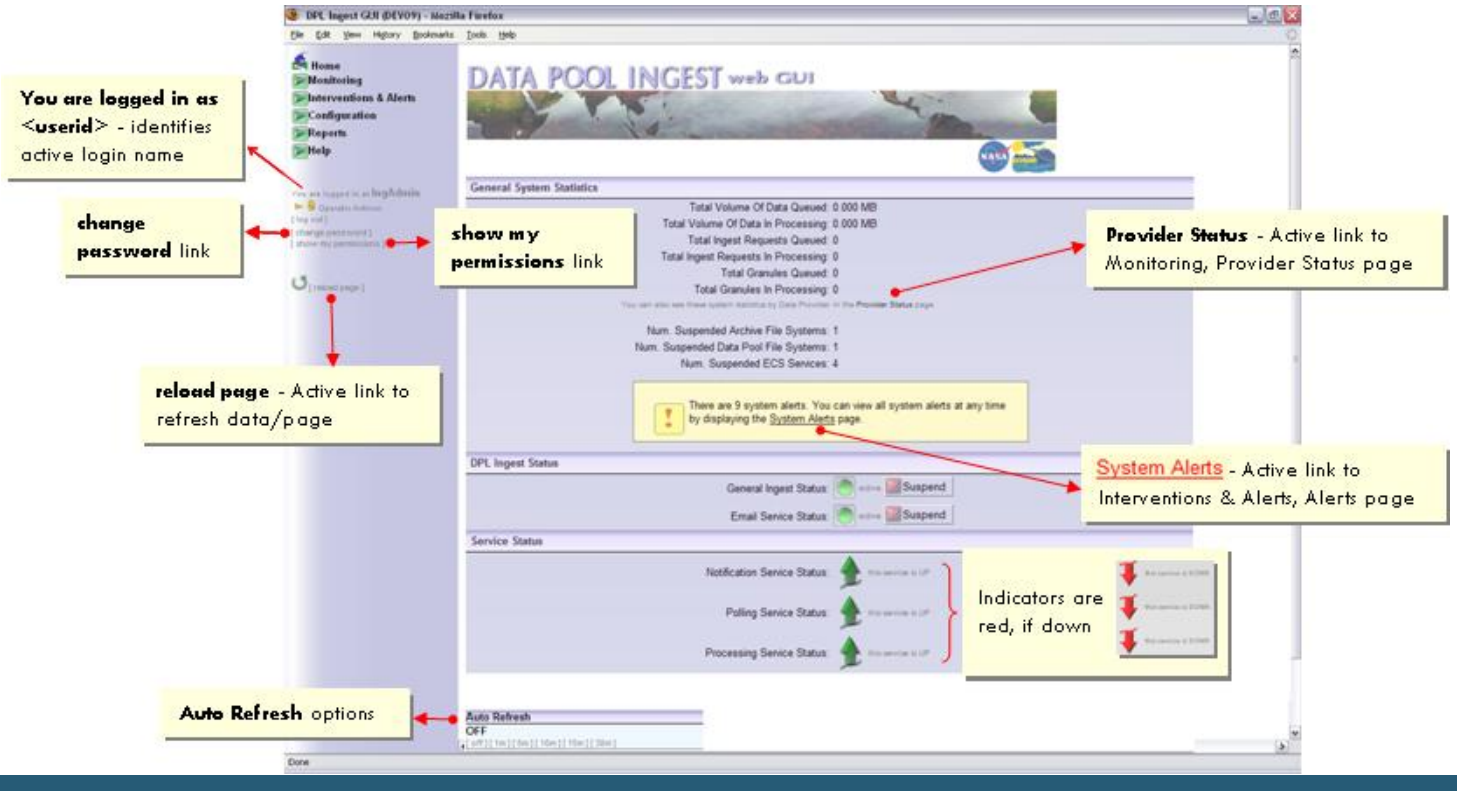
- **Software applications associated with Data Pool Ingest:**
  - **EcDlInProcessingService.**
  - **EcDlInPollingService.**
  - **EcDlInNotificationService.**
- **Ingest depends on the Data Pool Maintenance GUI to set up the Collection Groups.**

Data Pool Ingest
Launching (cont.)

- **Procedure: Launching the DPL Ingest web GUI**
  - Launch **Mozilla Firefox 2.0**+ web browser.
  - Type the **URL [http://host:port]** (or retrieve bookmark for the DPL Ingest web GUI):
    - For example: http://n4dpl01.nsidc.ecs.nasa.gov:25000/Ingest.

Data Pool Ingest web GUI
Home Page

- The **Navigation** panel is located in the left pane and contains menus that allow the Operator to monitor/control ingest requests.
- The **General System Statistics** section provides general information about current requests and granules in the system, as well as the various services and file systems used in processing.



Data Pool Ingest web GUI
Home Page (cont.)

- **The General System Statistics section provides general information about current requests and granules in the system, as well as the various services and file systems used in processing.**

Field Name	Description
Total Volume of Date Queued	Sum of the size of all files of all granules that have not yet been activated
Total Volume of Data In Processing	Sum of the size of all files of all granules that are currently active, and not suspended or in a terminal state
Total Ingest Requests Queued	Total number of requests that have not yet been activated
Total Ingest Requests In Processing	Total number of requests that are currently active, and not suspended or in a terminal state
Total Granules Queued	Sum of all granules in active or queued requests that have not yet been activated
Total Granules In Processing	Sum of all granules in active or queued requests that are currently active, and not suspended or in a terminal state
Num. Suspended Archive File Systems	Total archive file systems that have been suspended, either automatically by the server or manually by operator
Num. Suspended Data Pool File Systems	Total data pool file systems that have been suspended, either automatically by the server or manually by operator
Num. Suspended ECS Services	Total ECS service hosts that have been suspended, either automatically by the server or manually by operator

Data Pool Ingest web GUI
Home Page (cont.)

- The **DPL Ingest Status** section enable the user to halt various actions throughout the Data Pool Ingest system.
  - General Ingest Status button stops polling from all polling locations and prevents any new granules from being activated.
  - Email Service Status stops any further email notifications**.**
- The **Service Status** section provides the status of the three primary services that make up the Data Pool Ingest system:
  - **Notification Service Status** (**EcDlInNotificationService)** - If down, no notifications will be sent.
  - **Polling Service Status (EcDlInPollingService)** - If down, PDRs will not arrive from any configured polling location.
  - **Processing Service Status (EcDlInProcessingService)** - If down, no actions on any requests or granules will start.

Data Pool Ingest web GUI
Monitoring

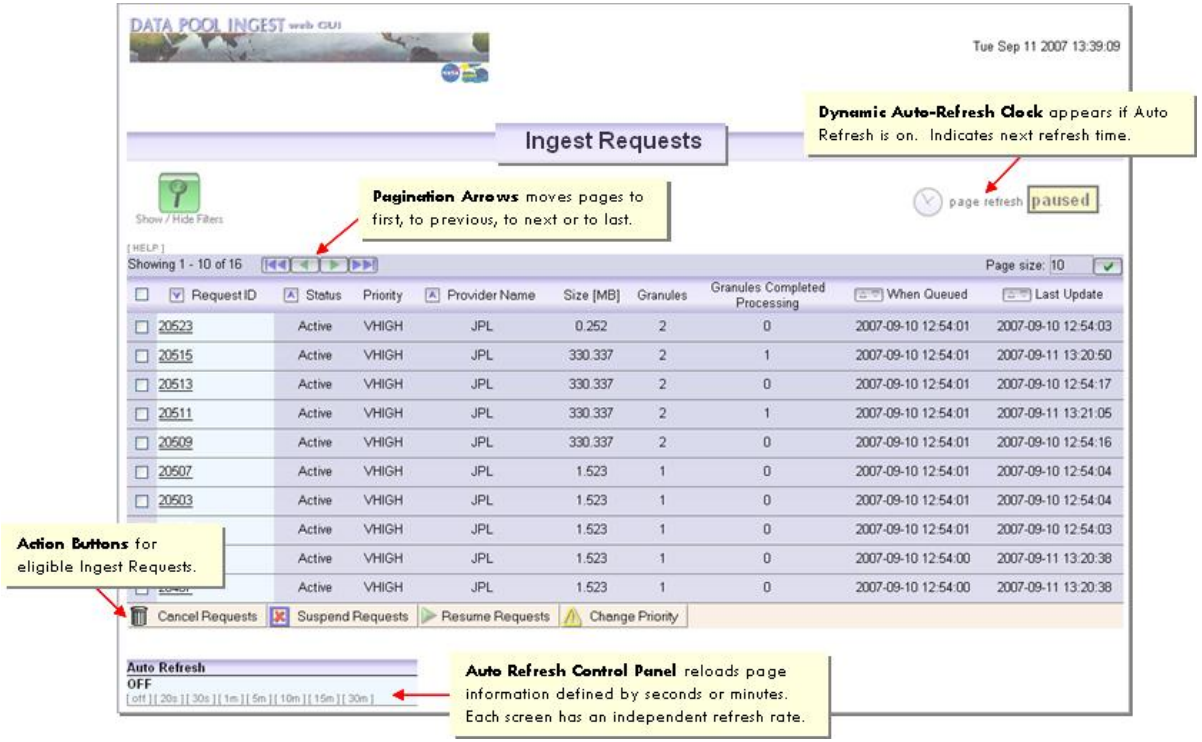
- **The following Data Pool Ingest Statuses can be monitored:**
  - **Requests Status**
  - **Historical Requests**
  - **Provider Status**
  - **File System Status**
  - **Transfer Host Status**
  - **ECS Service Status**
  - **PDR List**

Monitoring
Ingest Requests

- **The Ingest Request Status screen is used to check the status of current active Ingest requests.**
- **The Operator may select any eligible request and perform one of several actions:**
  - **Cancel Requests**: This is an irreversible action, there is no way to 'un-cancel' a request.
  - **Suspend Requests**: Performed only if the selected requests are not already suspended or cancelled.
    - Used to stop new granules from being activated
  - **Resume Requests**: This action may be performed only if the selected requests are suspended.
  - **Change Priority** of request(s):
    - Requests in terminal states cannot have their priority changed.
    - A default priority will be assigned to requests based upon the configuration of the request's provider.

Monitoring
Ingest Requests (cont.)

- **Procedure:**
  - Select the DPL Ingest GUI **Monitoring, Requests Status** link.
  - Click on a **Request ID.**
    - Displays information about the request



Monitoring
Ingest Requests (cont.)

- **Ingest Requests Page Column Descriptions**

Field Name	Description
Request ID	Unique ID for an ingest request.
Status	Status of the request: –New –Validated –Active –Partially_Suspended –Suspending/Suspended –Resuming –Failed –Partial_Failure –Canceling –Partially_Cancelled –Successful
Priority	The precedence which a request will have for activation and various processing actions.
Provider Name	Name of the provider from which the request was obtained.
Size [MB]	Sum of the size of all granules in the request.
Granules	Total granules included in the request.
Granules Completed Processing	Total granules that have reached a successful state.
When Queued	Time the request was encountered by the polling service.
Last Update	Time of the last change made by the ingest services to the status of the request or its granules.

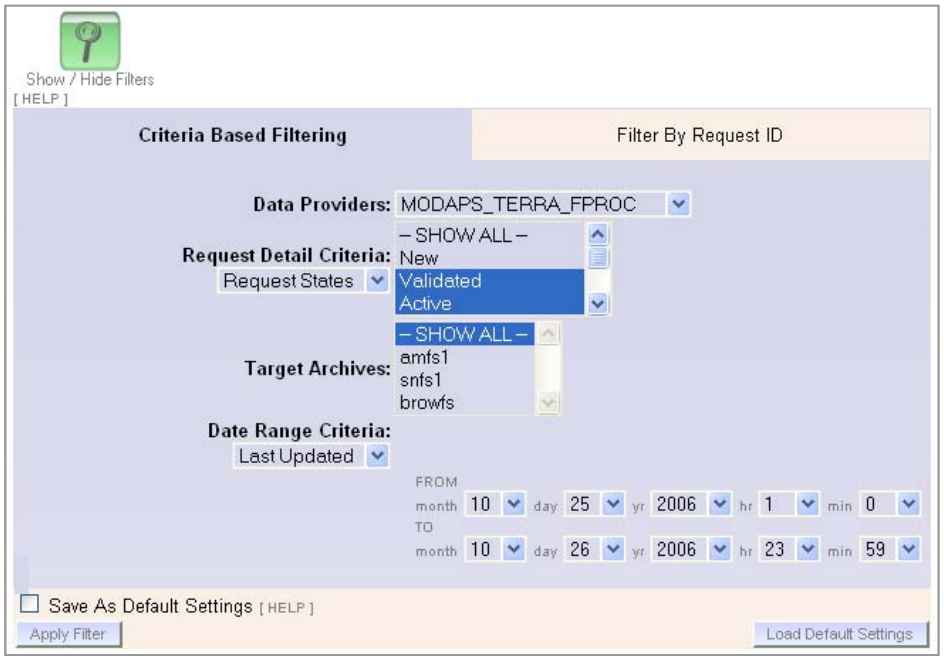
Monitoring
Ingest Requests (cont.)

- **Ingest Requests Status Allowed Actions Descriptions**

Request Status	Request Actions				
	Suspend	Cancel / Change Priority	Resume	Cancel	No Actions Allowed
New		X		X	
Validated		X		X	
Active	X	X		X	
Partially_Suspended	X	X		X	
Suspending / Suspended		X	X	X	
Resuming	X	X			
Failed					X
Partial_Failure					X
Canceling					X
Partially_Cancelled					X
Successful					X

Monitoring
Ingest Requests (cont.)

- **Procedure: Changing Request Status Filters**
  - Select the DPL Ingest GUI **Monitoring, Requests Status** link
  - Select the **Show/Hide Filters** button
    - Active Ingest Request List Filter Panel displayed.



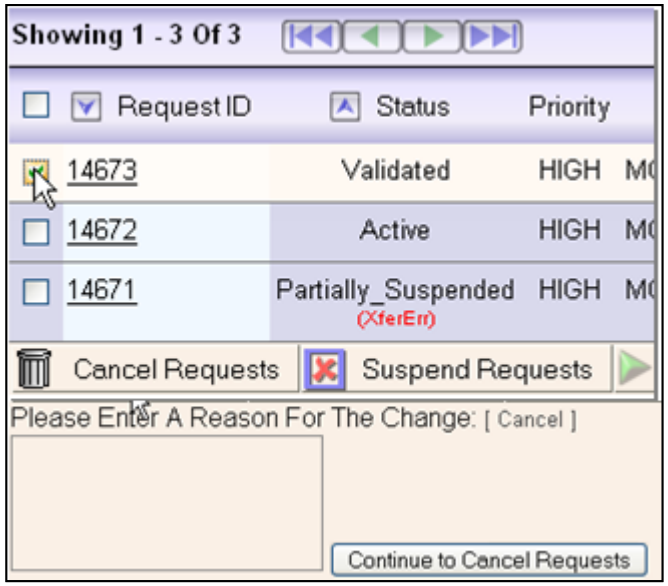
Monitoring
Ingest Requests (cont.)

- **Procedure: Changing Request Status Filters**
  - **Criteria Based Filtering**
    - Allows filtering the attributes of various requests
    - If you want to filter a single granule ID select Filter By Request ID
  - **Filter by Data Provider**
  - **Filter by Request State criteria**
    - Selection to filter the Request Detail Criteria to retrieve the requests states
  - **Error Type**
    - Selection to filter the Request Detail Criteria for error types
  - **Filter by Request Detail Criteria**
  - **Filter by Target Archives Criteria**
  - **Filter by Date Range Criteria**

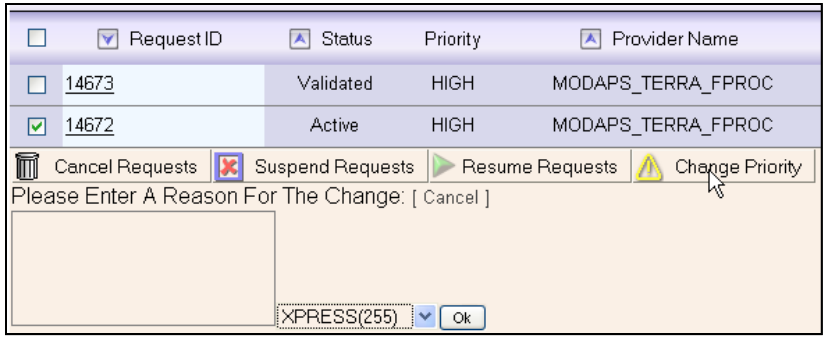
Monitoring
Ingest Requests (cont.)

- **Procedure: Change Priority of Ingest Requests**
  - Click the **checkbox** corresponding to the request to be resumed
  - Click the **Resume, Suspend** or **Change Priority** button
  - Enter the "…**Reason For The Change"** in textbox.
  - Click the **OK** button

▪ **Cancel/Resume**

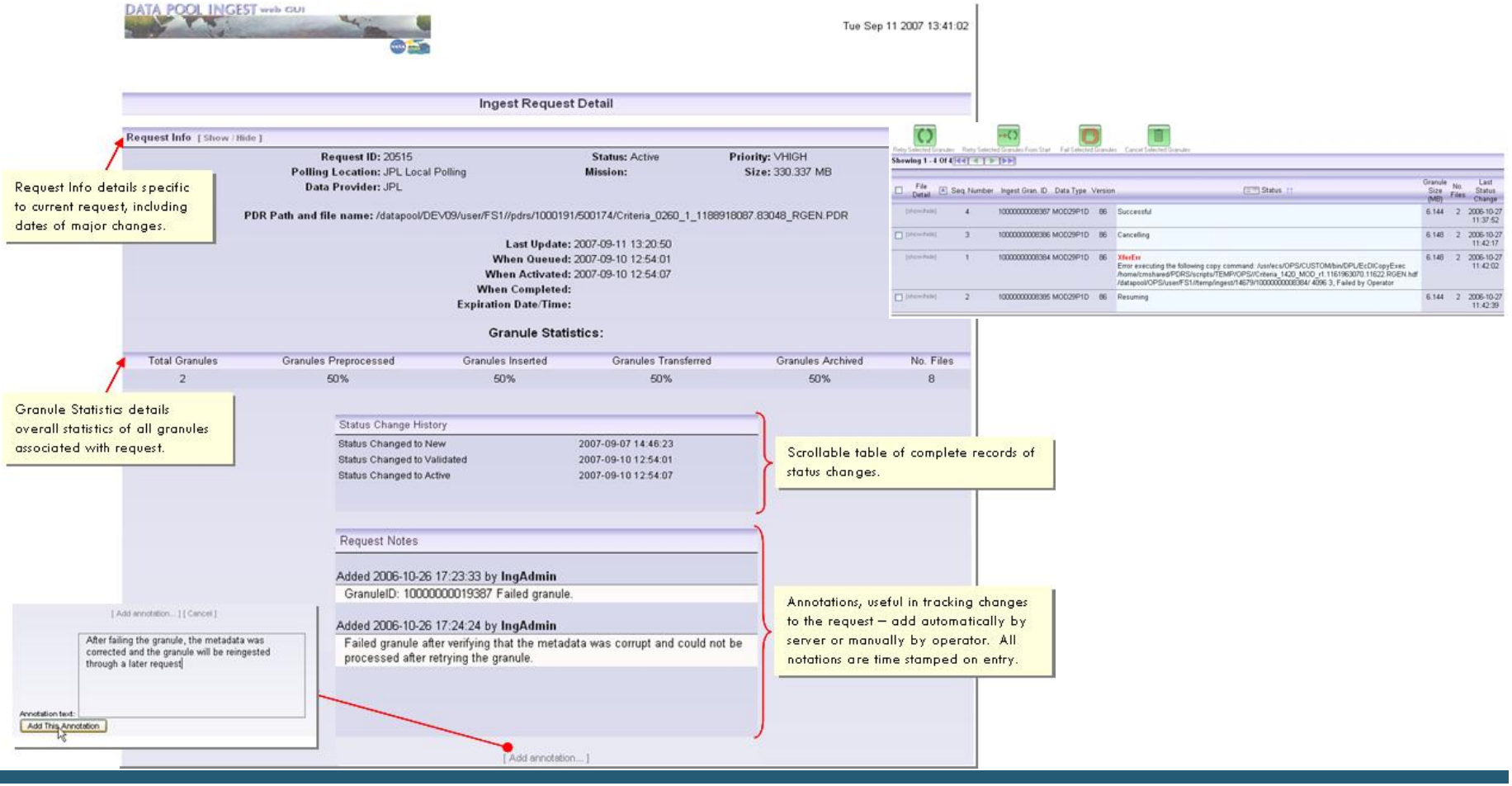


▪ **Change Priority**



Monitoring
Ingest Requests (cont.)

- **Ingest Request Detail Page and Granule List**



Monitoring
Ingest Requests (cont.)

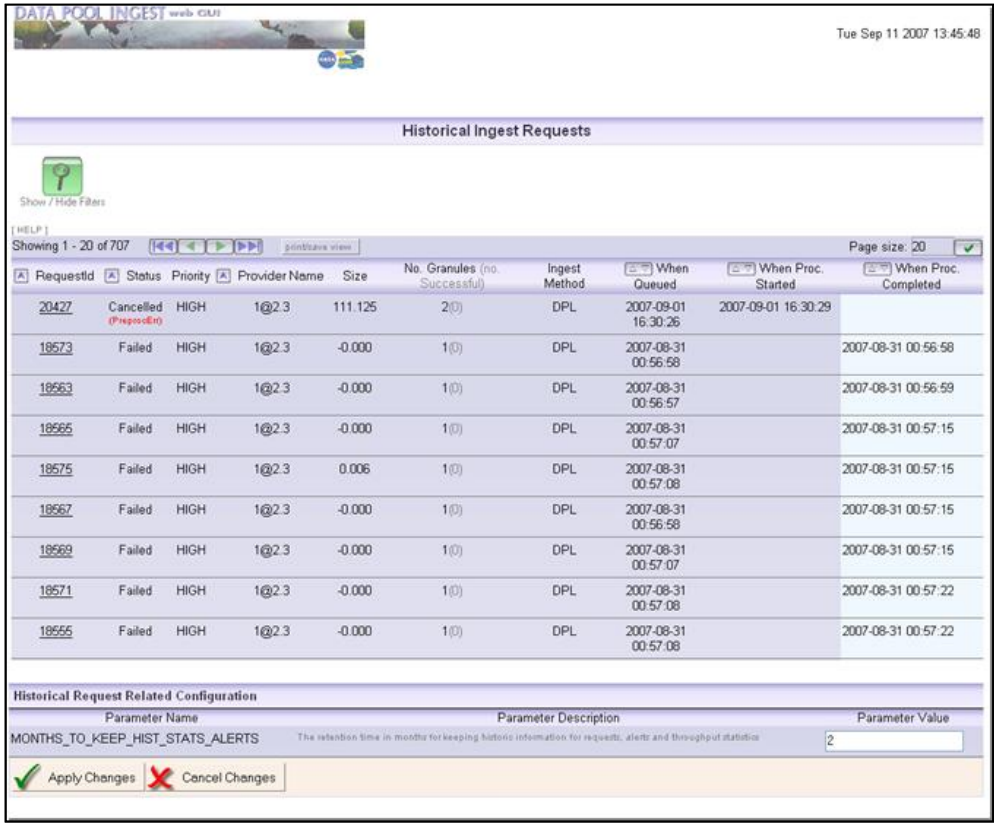
- **Ingest Request Detail Page (cont.)**
  - **Any granule(s) encountering problems during any point in their processing are initially flagged as "suspended"**
  - **The following actions may be performed on granules that have been initially suspended:**
    - **Retry Selected Granules**: This applies only to granules that are currently suspended
    - **Retry Selected Granules From Start**: This applies only to granules that are currently suspended and retries them from the beginning
    - **Fail Selected Granules**: This applies only to granules that are currently suspended and transitions the granule into the failed state
    - **Cancel Selected Granules**: This applies to granules that are in the New state, Active state, or Suspended state and can be cancelled by selecting this icon
      - If the state is Successful, Failed or any Terminal state, the granule may not be cancelled. This action manually fails the granules and marks them 'canceled'

Monitoring
Historical Requests

- **The DPL Ingest Historical Requests provides the following information:**
  - **A summary of ingest requests that have been processed.**
  - **Detailed granule information about each completed ingest request.**
  - **Ingest request processing statistics to include time required to perform Transfer, Checksum, Preprocess, DPL Insert and Archive.**
  - **Detailed information about each granule.**
- **Since the Historical Requests are completed requests, no action can be processed form these pages.**

Monitoring
Historical Requests (cont.)

- **Procedure: Historical Ingest Request Pages**
  - Select the DPL Ingest GUI **Monitoring, Historical Requests** link.
  - Select the **Show/Hide Filters** button



Monitoring
Historical Requests (cont.)

- **Procedure: Historical Ingest Request Detail Page**

Historical Ingest Request Detail for RequestId 18565

Request Info [Show / Hide]

RequestID: 18565 **Status:** Failed **Priority:** HIGH
Provider: 1@2.3 **Size:** -0.000 MB **No. Granules:** 1 (0 successful)
Ingest Method: DPL **No. Files:** 2

When Queued: 2007-08-31 00:57:07
When Processing Started:
When Processing Ended: 2007-08-31 00:57:15

Request Timings

Time To Xfer	Time To Checksum	Time To Preprocess	Time To DPL Insert	Time To Archive
0	-	0	-	0

Status Change History

Status Changed to New	2007-08-31 00:41:59
Status Changed to Validated	2007-08-31 00:57:07
Status Changed to Failed	2007-08-31 00:57:15

Request Notes

There are no Request Notes for this request.

Granule List **Showing 1 - 1 Of 1**

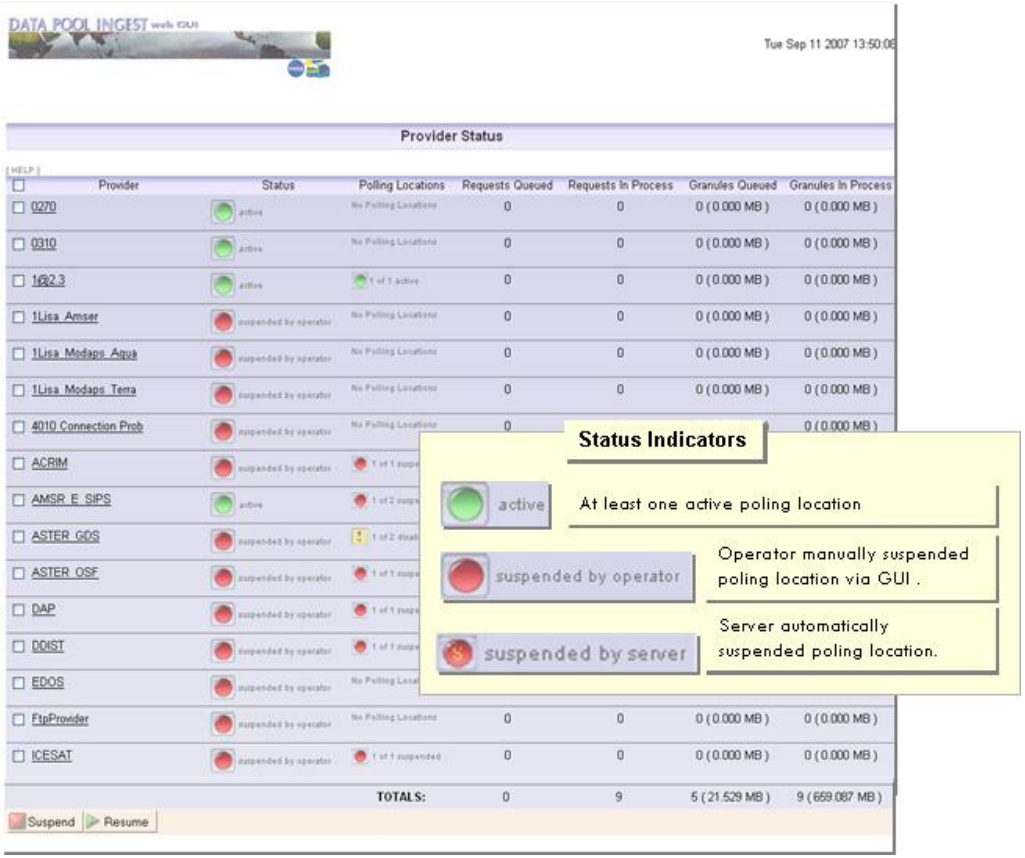
Seq. Number	Ingest Gran. ID	ECS Gran. ID	DPL Gran. ID	Data Type	Version	Status	Granule Size (MB)	No. Files	Proc. Start	Proc. End	Total Proc. Time	Time To Checksum	Retry Count
1	5000000021393			AE_RnGd	1	InitErr	0.085	0					

Monitoring
Provider Status

- **The Provider Status link provides access to the status and information about each configured data provider in the Ingest system:**
  - **Provides a list of all configured providers with general statistics for each provider.**
  - **Provides the status of the provider (i.e. Active, Suspended by Server, or Suspended by Operator).**
    - This is the only changeable field on this page. From this page a provider can be Resumed or Suspended.
  - **Provides individual status for polling locations (i.e., total number of active or suspended polling location).**
  - **Provides access to detailed provider status that shows individual status of each polling location associated with a provider.**
    - From this page, an individual polling location can be suspended or resumed, accordingly.

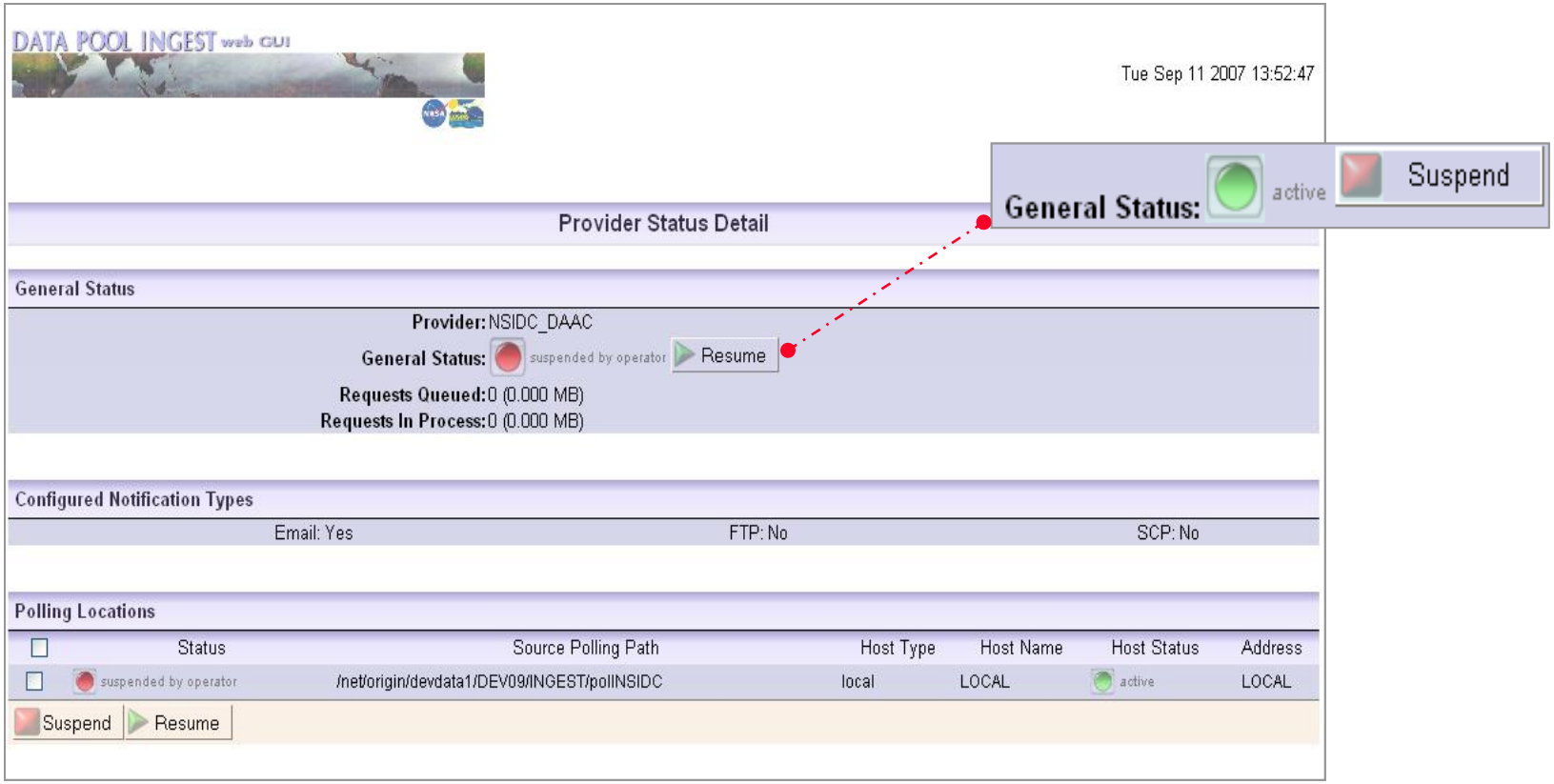
Monitoring
Provider Status (cont.)

- **Procedure:**
  - Select the DPL Ingest GUI **Monitoring**, **Provider Status** link.
    - Provider Status Page displays.



Monitoring
Provider Status (cont.)

- **Procedure: (cont.)**
  - Click on any **Provider ID** to display **Provider Status Detail** page.



Monitoring
Provider Status (cont.)

- **Suspend/Resume Provider:**
  - **A Provider may be Suspended or Resumed from the Provider Status page.**
    - Suspending a Data Provider will stop the activation of Ingest Requests from that Provider.
      - **Ingest Requests that are already active will be completed.**
    - Ingest will also stop polling any of the Polling Locations associated with that Data Provider.
      - **No new Requests from that suspended Data Provider will be queued.**
      - **If a polling cycle is in progress, the cycle will be completed.**
    - Resuming a Provider will activate Ingest Requests from that provider.

Monitoring
Provider Status (cont.)

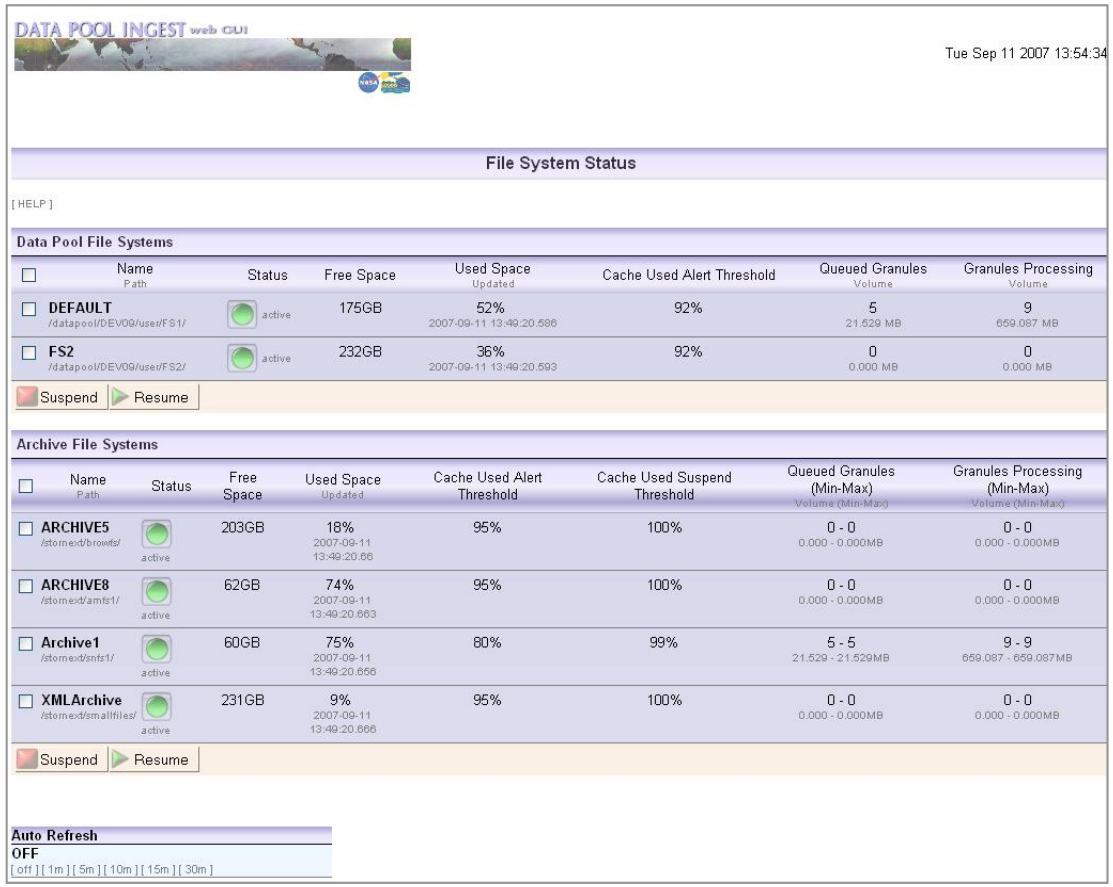
- **Suspend/Resume Polling Location:**
  - **A provider may be suspended or resumed from the Provider Status page.**
    - Suspending a Polling Location will stop the activation of Ingest Requests from location.
      - **Ingest Requests that are already active will be completed.**
    - Resuming a Polling Location will activate Ingest Requests from location.

Monitoring
File System Status

- **The File System Status page displays information on the Data Pool Archive File Systems and Data Pool File Systems:**
  - **Displays name(s) and directory paths for Archive and Data Pool File Systems.**
  - **Provides statuses of the Archive and Data Pool File Systems:**
    - Active, Suspended by Operator or Suspended by Server.
    - This is the only changeable field on this page.
    - From this page Archive and Data Pool File Systems can be Resumed or Suspended.
  - **Provides File System space threshold metrics.**

Monitoring
File System Status (cont.)

- **Procedure:**
  - Select the DPL Ingest GUI **Monitoring, File System Status** link



Monitoring
File System Status (cont.)

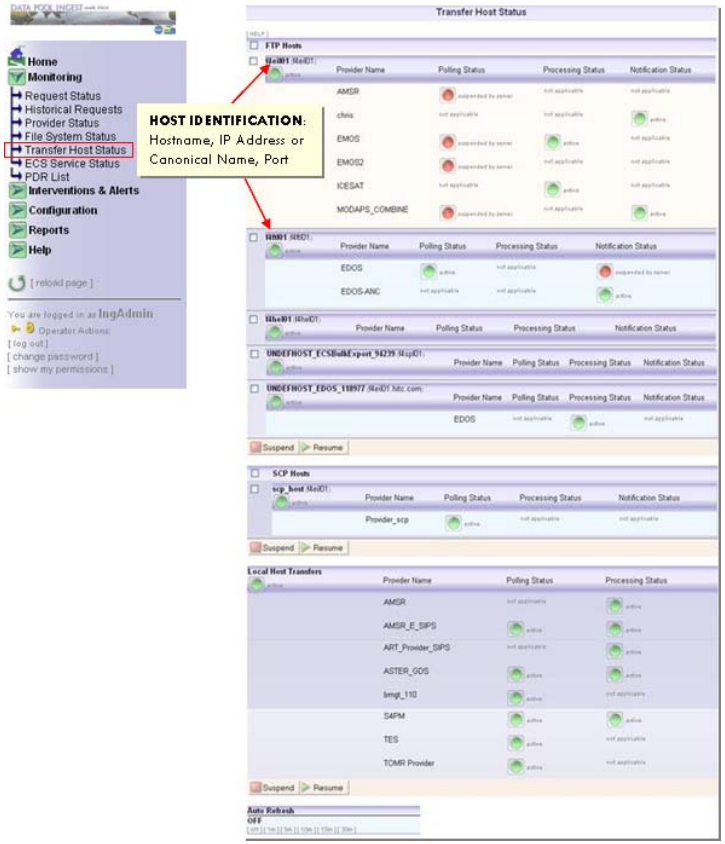
- **Procedure: Suspend/Resume File Systems**
  - **Data Pool File System and Archive File System can be suspended or resumed from the File System Status page.**
    - Suspending a File System will prevent the occurrence of any activity on the selected File System.
    - Resuming a File System will allow activity on a File System to resume.

Monitoring
Transfer Host Status

- **The Transfer Host Status page shows the statuses of each configured FTP, SCP and HTTP hosts and status of Local Host Transfers.**
  - The statuses are divided into individual polling processing, and notification status for each active host provider.
  - These hosts can be suspended or resumed manually or by the Data Pool Ingest service.
  - An undefined host is generated when the system does not recognize the node name contained in the PDR.
  - If a PDR is sent through processing with a host configured in the PDR that does not show up on the GUI, a new host will automatically be added to the list of FTP, SCP and HTTP Hosts with the name UNDEFHOST_[Provider]_[RequestID]. No provider status on a host will be displayed until the operator manually configures a polling location for the provider to use on that host, a PDR for the provider references the host, or the provider has configured notifications to be delivered to that host. It is possible that a host is not used for all three servers in which case the status for that particular server(s) will be displayed as not applicable. If more than one polling location is configured for a provider on the host, the number of polling locations will also be displayed next to the polling status.

Monitoring
Transfer Host Status (cont.)

- **Procedure**
  - Select the DPL Ingest GUI **Monitoring**, **Transfer Host Status** link.
    - Displayed, Transfer Host Status Page and Field Descriptions.



Field Name	Description
Host Identification	Within each configured host status section, display name assigned to the host on which the polling location is found. (Possible Status: active or suspended by Operator).
Status by Provider:	•*Provider Name*: Name of a provider with a polling location configured on the host. •*Polling Status*: Whether or not polling actions are active, suspended or non-applicable for a specific provider. •*Processing Status*: Whether or not file transfer actions are active, suspended or non-applicable for a specific provider. •Notification Status – Whether or not active host notifications for the provider actions are active.

Monitoring
ECS Service Status

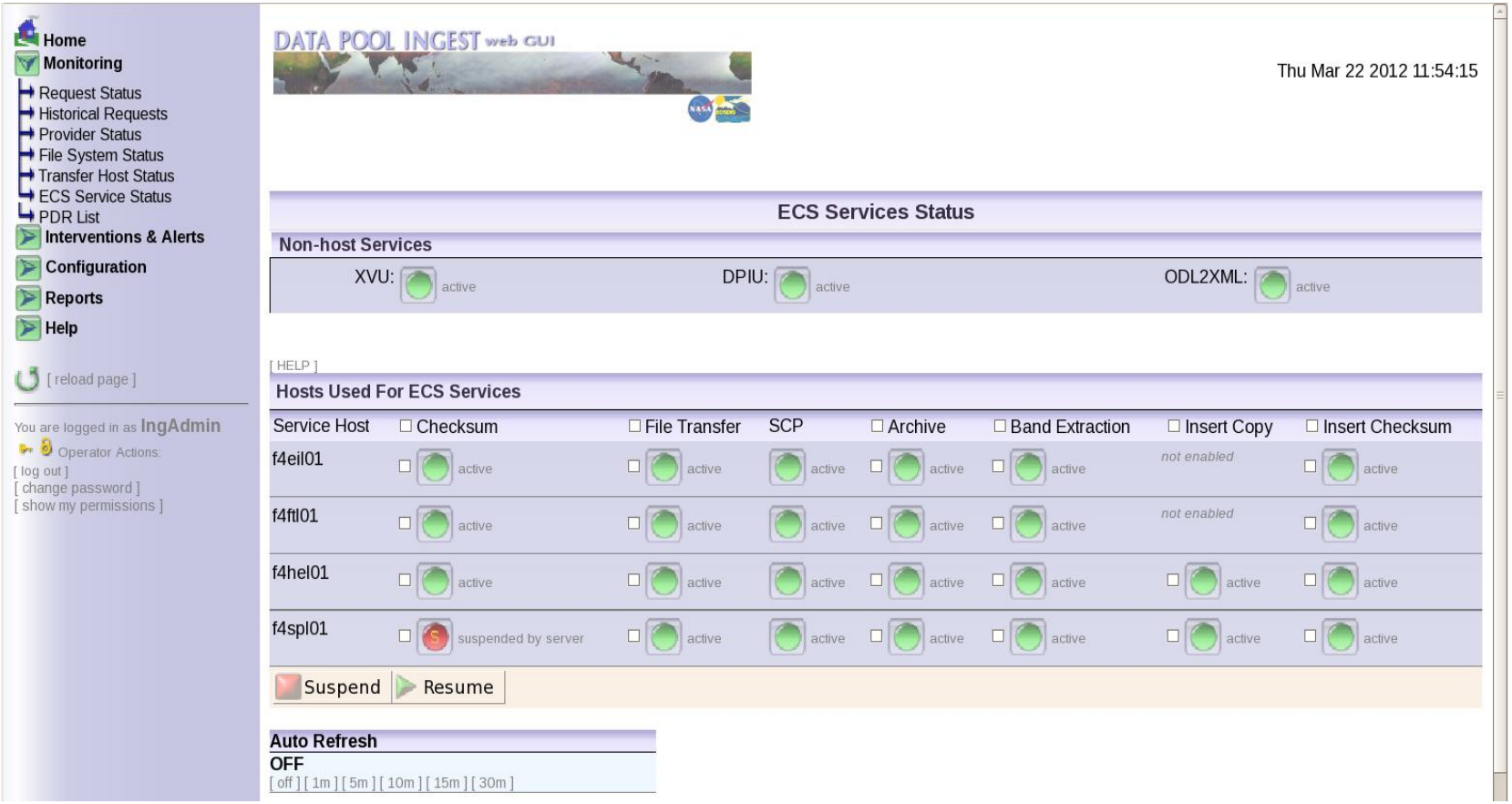
- **Non-host Services - services that run on the same host as the Ingest processing service. Operator cannot suspend or resume these services.**
- **The status columns show a green (active or up) or red (inactive or down) icon.**
  - **XML Validation Utility (XVU) - service that validates incoming granule metadata files. Host-specific ECS Services. These services can be individually suspended and resumed for a particular host. The XVU, DPIU, and ODL2XML services are listed separately and can only be resumed.**
  - **ODL to XML Utility (ODL2XML) – the utility converts the granule metadata files form ODL format to XML format.**
  - **Data Pool Insert Utility (DPIU) - registers granule metadata into the Inventory database.**

Monitoring
ECS Service Status (cont.)

- **Host Used For ECS Services displays services tied to a specific host. Each of these services can suspend or resume on that particular host:**
  - **Checksum**
  - **File Transfer**
  - **Archive**
  - **Band Extraction**
  - **Insert Copy**
  - **Insert Checksum**
- **ECS Services can be configured to run on any number of hosts.**
- **The service on each host is independent of the same type of service on the other hosts. As a rule, checksum operations must take place on a different host than the one on which a granule was transferred. If all but one checksum host is suspended, all granules transferred on that host will suspend until another checksum host is activated.**

Monitoring
ECS Service Status (cont.)

- **Procedure:**
  - Select the DPL Ingest GUI **Monitoring, ECS Service Status** link.

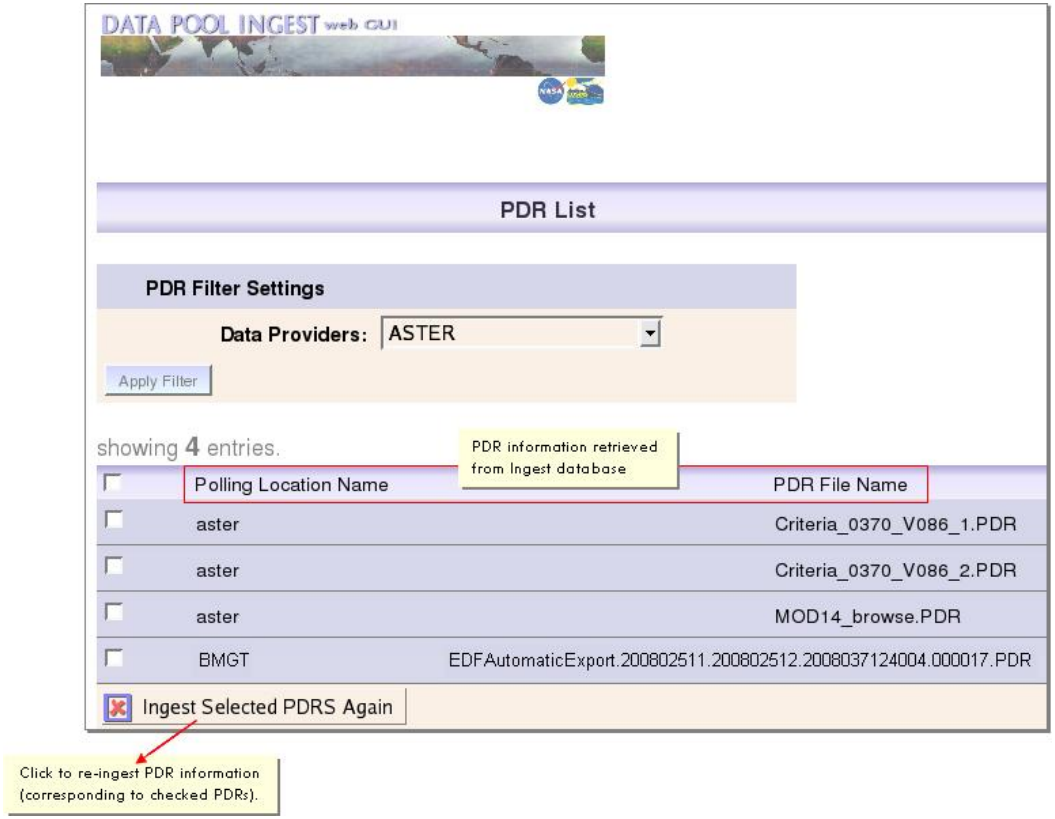


Monitoring
PDR Lists

- **The PDR List page displays information retrieved from the Ingest database, listed by Polling Location Name and PDR File Name.**
  - **Once a provider removes the PDR for the provider polling server, the PDR list will be updated to reflect this change.**
  - **Selecting a PDR from the PDR List allows the operator to re-ingest the data from the selected polling location.**

Monitoring
PDR Lists (cont.)

- **Procedure: Re-Ingest a PDR**
  - Select the DPL Ingest GUI **Monitoring, PDR List** link
  - Select the **PDR(s)** to be re-ingested, then click the **Ingest Selected PDRS Again** button.

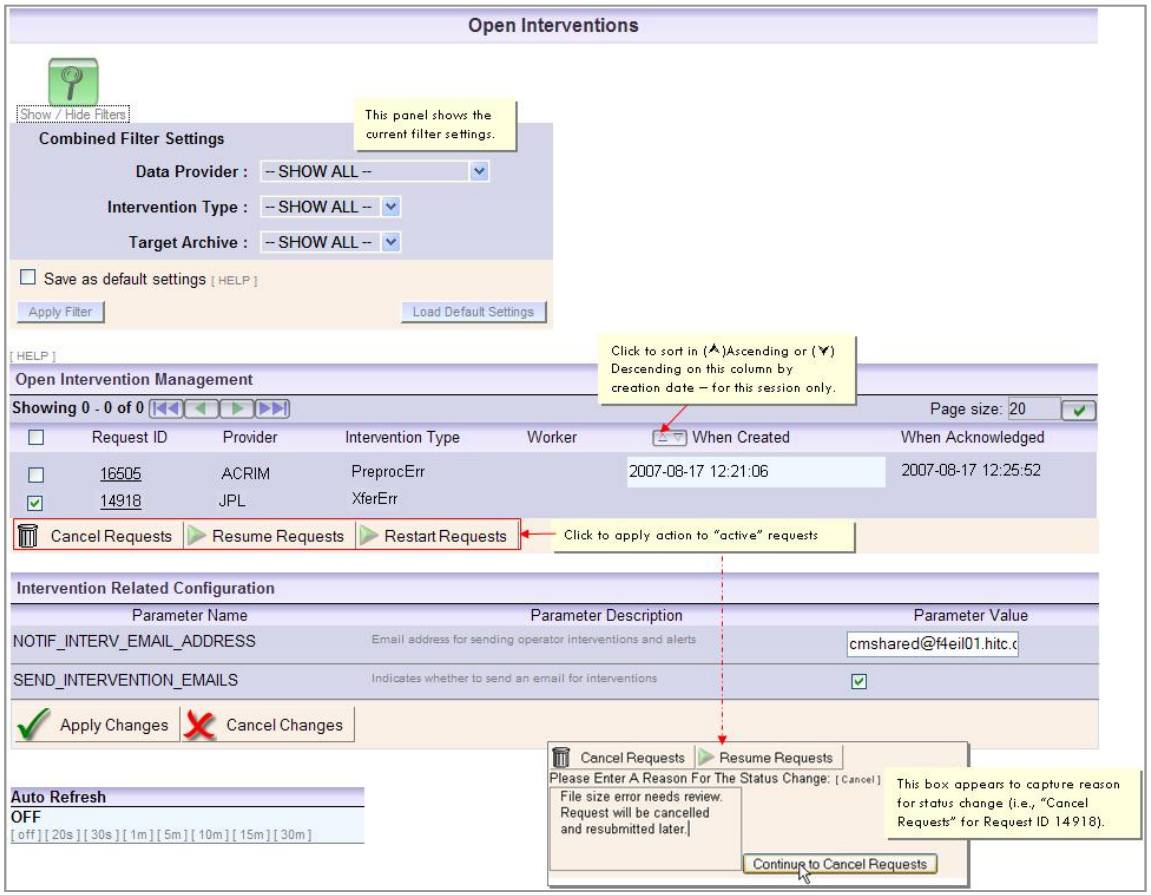


Interventions & Alerts

- **The Interventions & Alerts link provides Operator access to Ingest Requests with open interventions.**
  - **The operator may select any eligible request and either cancel or resume the request(s).**
- **The Interventions & Alerts link displays Data Pool System Alerts as they are raised in the Inventory database:**
  - **Warns the Operator when the Ingest Service runs into a problem believed to be associated with a resource or service it is using.**
  - **After raising an alert, the Ingest Service will check in regular intervals whether the problem has been resolved and clear the alert.**
  - **An alert may also be cleared manually once the Operator determines that the problem has been resolved.**
  - **Manually restoring service helps the Operator to avoid waiting until the next auto-retry of resources.**

Interventions & Alerts
Open Interventions

- **Procedure**
  - Select the **Interventions and Alerts**, **Interventions** link.



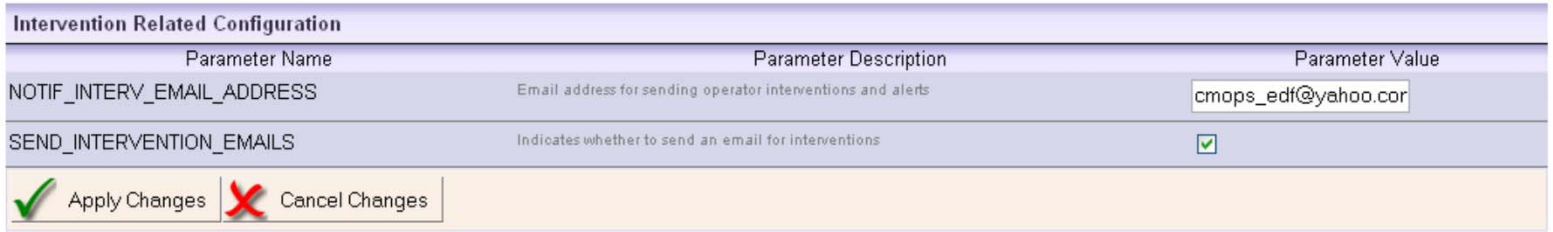
Interventions & Alerts
Open Interventions (cont.)

- **Open Interventions Management Field Descriptions**

Field Name	Description
Request ID	Unique Data Pool Ingest identifier assigned to the request in intervention
Provider	Name of the provider from which the request was obtained
Intervention Type	Type of error encountered during processing of at least one of the request granules (if there are multiple error types encountered in a single request, the type will be "MULTIPLE")
Worker	Name of a worker assigned to address the intervention
When Created	Time the intervention was generated (which may have been after several retries after the error was first encountered)
When Acknowledged	Time the intervention was first viewed by an operator
Intervention Related Configuration	
Parameter Name	SEND_INTERVENTION_EMAIL. Indicates whether to send an Email for Intervention NOTIFY_INTERV_EMAIL_ADDRESS. Email address for sending Operator Intervention and Alerts.
Parameter Description	Indicates whether to send an Email for Intervention. Email address for sending Operator Intervention and Alerts.
Parameter Value	SEND_INTERVENTION_EMAIL. Contains a checkbox to apply or change this parameter NOTIFY_INTERV_EMAIL_ADDRESS. Textbox to enter an Email address for sending Operator Interventions and Alerts.

Interventions & Alerts
Open Interventions (cont.)

- **Procedure: Change E-mail Configuration**
  - Enter the e- mail address in the **NOTIFY_INTERV_EMAIL_ADDRESS.**
  - Click in **SEND_INTERVENTION_EMAIL** checkbox, then click the **Apply Changes** button.



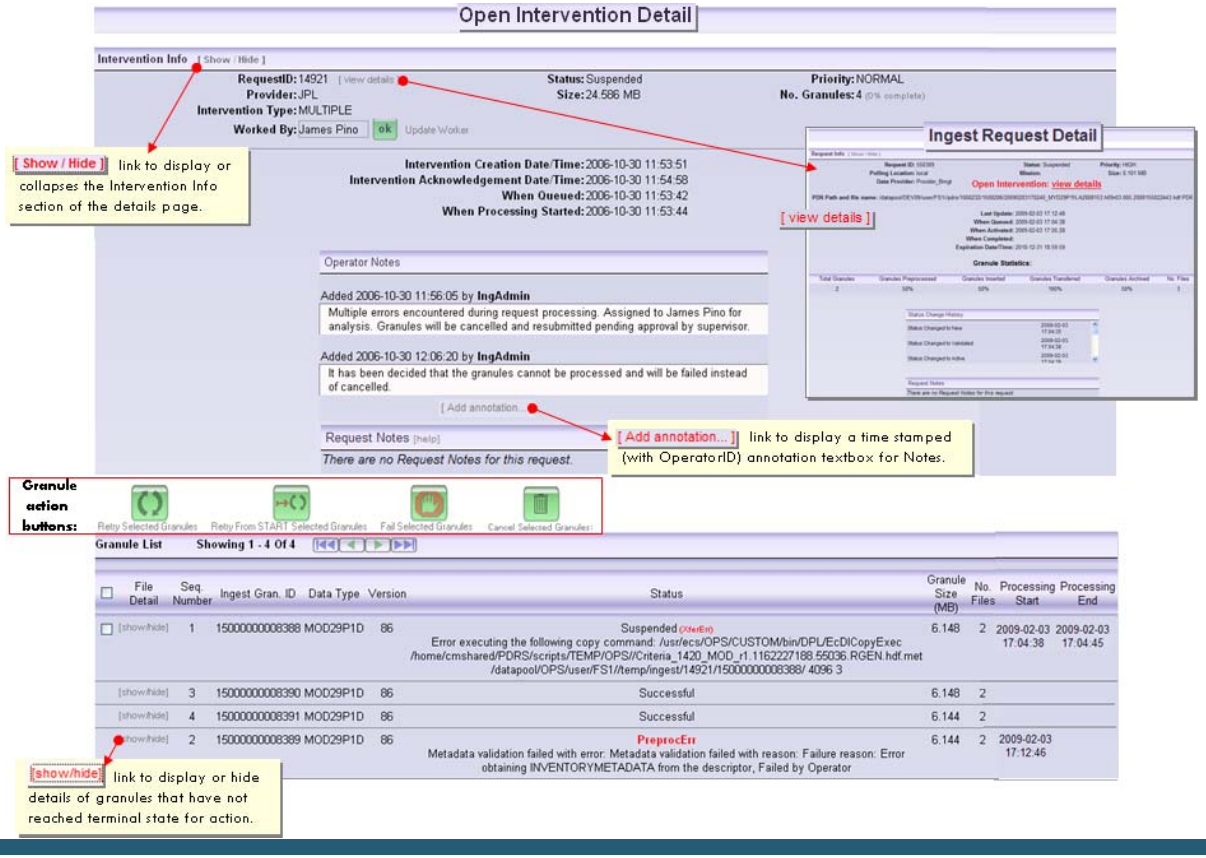
- **Procedure: Cancel/Resume Request**
  - In the **Open Intervention Management** section, click checkbox of the request to be resumed/cancelled.
  - Click the **Resume** button.
    - Processing for all granules currently suspended will be resumed.
  - Click the **Cancel** button
    - Processing for all granules will be terminated, which is irreversible.

Interventions & Alerts
Open Interventions (cont.)

- **The Interventions Detail page allows the Operator to take action on specific granules that have been intervened.**
  - **In the Open Intervention Management section, after Operator clicks the request to be resumed/cancelled:**
    - The Request information contained in the Open Intervention page is listed at the top of the page
    - A list of granule(s), with detailed information is displayed at the page bottom.
  - **An Operator Intervention remains open as long as there are suspended granules.**
  - **Once all granules issues have been resolved, the Operator Intervention status will automatically be removed.**

Interventions & Alerts
Open Interventions (cont.)

- **Procedure: Detail Page Display**
  - Select the **Interventions and Alerts, Interventions** link.
  - Click a **Request ID** to display the **Open Interventions Details** Page



Interventions & Alerts
Open Interventions (cont.)

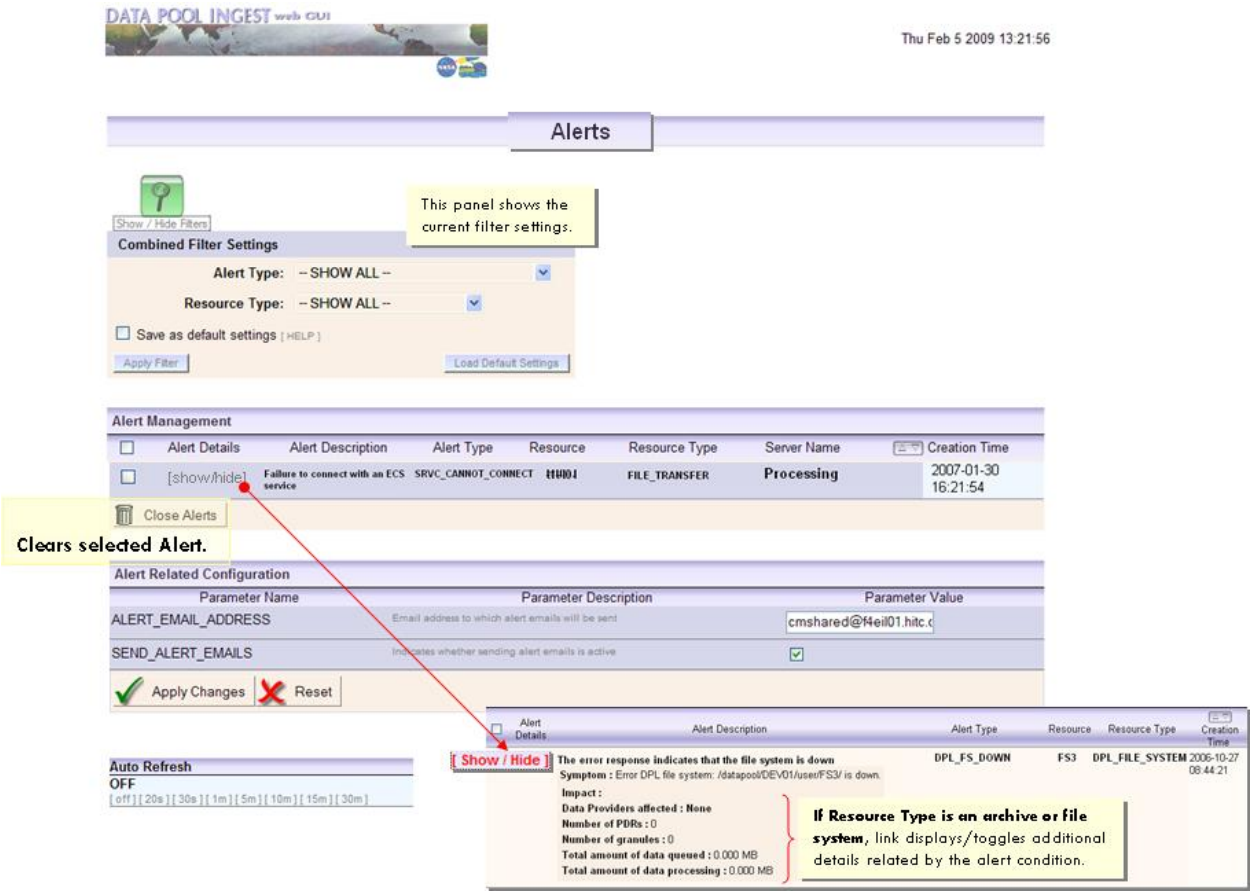
- **Changing Granule Status:**
  - **A list of granule(s) along with detailed information is displayed at the bottom of the Open Intervention page.**
  - **An Operator Intervention remains open as long as there are suspended granules.**
  - **The operator can take one of several actions to 'close' interventions:**
    - Suspended granules can be failed.
    - Suspended granules can be retried in one of two ways:
      - **Retry Selected Granules:** suspended granule is retried from the last known point of processing.
      - **Retry From START Selected Granules:** granule is retried from the start of processing, no matter where in the processing chain it failed.
      - Every retry is annotated with appended time, operator and action taken.
    - Suspended granule(s) can be canceled.

Interventions & Alerts
Open Interventions (cont.)

- **Procedure: Changing Granule Status**
  - Select the **Interventions and Alerts, Interventions** link.
  - Click a **Request ID** to display the **Open Interventions Details** Page.
  - Click on the appropriate button:
    - **Fail Selected Granules.**
    - **Retry Selected Granules.**
    - **Retry Selected Granules From the Start.**
    - **Cancel Selected Granules.**

Interventions & Alerts
Alerts

- **Procedure: Viewing System Alerts**
  - Select the **Interventions and Alerts, Alerts** link

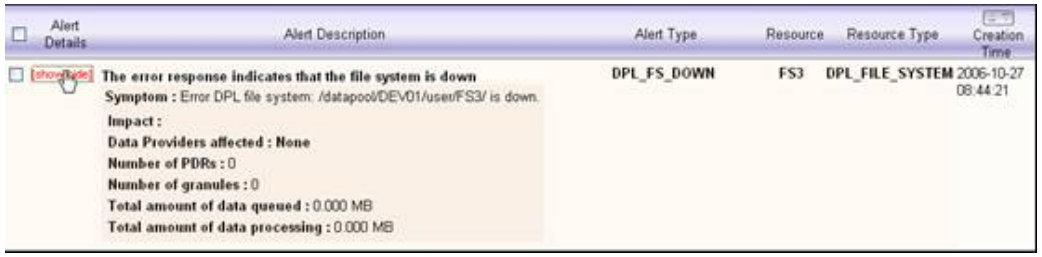


Interventions & Alerts
Alerts (cont.)

- **Procedure: Viewing System Alerts (cont.)**
  - **Alert Management section of page:**
    - **Alert Details** – Show/Hide link to display alert information.
    - **Alert Description** – describes error that generated alert.
    - **Alert Type** – unique name for error type.
    - **Resource** – resource name affected by alert.
    - **Resource Type** – such as SCP/FTP/HTTP Host, Polling Location or Archive.
    - **Server Name** – server affected by alert.
    - **Creation Time** – time alert was generated.
  - **Alert Related Configuration section of page:**
    - Parameter Name
    - Parameter Description
    - Parameter Value

Interventions & Alerts
Alerts (cont.)

- **Procedure: Change Alert Email Configuration**
  - Enter the email address in the **ALERT_EMAIL_ADDRESS.**
  - Click on **SEND_ALERTS_EMAIL** field, then click **Apply Changes** button.
- **Procedure: Viewing Detail System**
  - Select the **Interventions and Alerts, Alerts** link
  - Click **Show/Hide** button display **Detailed Alert Information**:
    NOTE: If Resource Type is an archive or file system, these alert details are displayed:
    - Symptom
    - Impact
    - Data Providers affected
    - Number of PDRs
    - Number of Granules
    - Total amount of data queued
    - Total amount of data processing

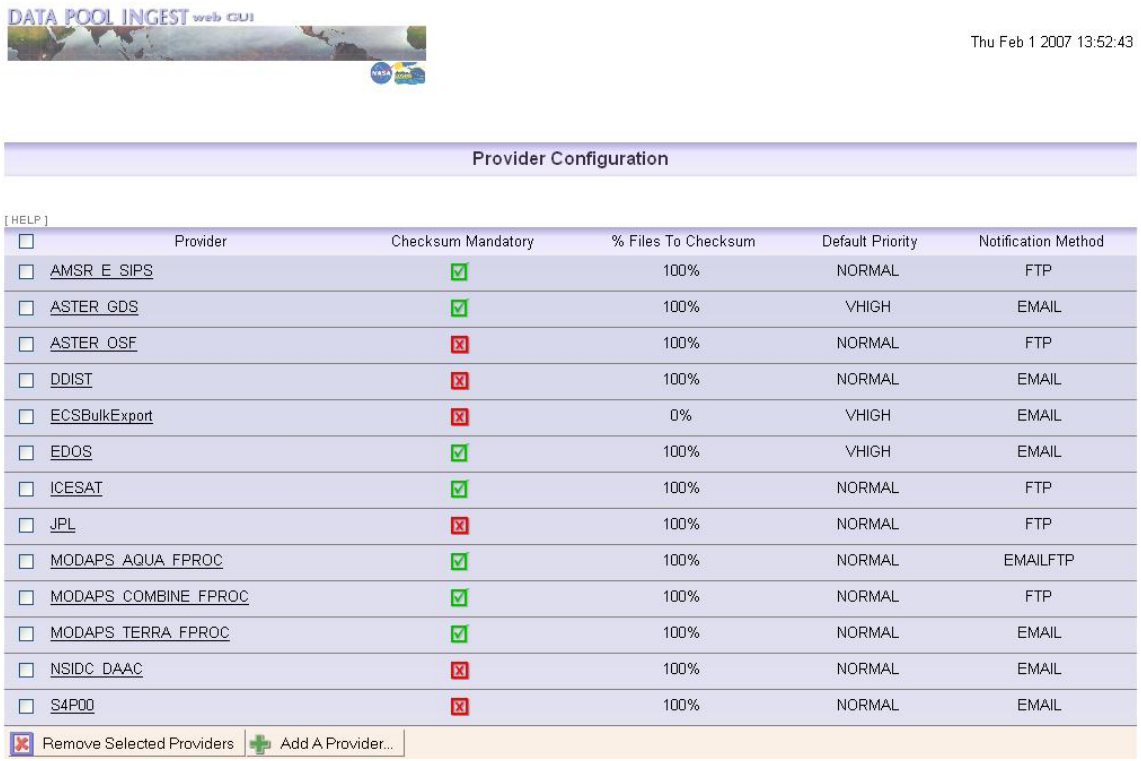


Interventions & Alerts
Alerts (cont.)

- **Procedure: Clearing an Alert**
  - Select the **Interventions and Alerts, Alerts** link.
  - Click **Alert(s)** to be cleared.
  - Click the **Close Alert** button.
  - Click **OK** at the Confirmation prompt.

DPL Ingest Configuration

- **The DPL Ingest Configuration pages provide the full-capability Operator the ability to modify, if necessary, values assigned to DPL Ingest configuration parameters:**
  - **Providers**
  - **Data Types**
  - **Transfer Hosts**
  - **File Systems**
  - **ECS Services**
  - **Global Tuning**
  - **Volume Groups**
  - **Operators**



Provider	Checksum Mandatory	% Files To Checksum	Default Priority	Notification Method
AMSR_E_SIPS	☑	100%	NORMAL	FTP
ASTER_GDS	☑	100%	VHIGH	EMAIL
ASTER_OSF	☒	100%	NORMAL	FTP
DDIST	☒	100%	NORMAL	EMAIL
ECSBulkExport	☒	0%	VHIGH	EMAIL
EDOS	☑	100%	VHIGH	EMAIL
ICESAT	☑	100%	NORMAL	FTP
JPL	☒	100%	NORMAL	FTP
MODAPS_AQUA_FPROC	☑	100%	NORMAL	EMAILFTP
MODAPS_COMBINE_FPROC	☑	100%	NORMAL	FTP
MODAPS_TERRA_FPROC	☑	100%	NORMAL	EMAIL
NSIDC_DAAC	☒	100%	NORMAL	EMAIL
S4P00	☒	100%	NORMAL	EMAIL

DPL Ingest Configuration
Modify Configuration Providers

- **The Provider Configuration page lists all of the Data Providers for the DPL Ingest System, with the following selected attributes for each Provider**
  - **Checksum Mandatory**
  - **% Files To Checksum**
  - **Default Priority**
  - **Notification Method**
- **Providers parameters can be selected, edited and removed:**

Field Name	Entry	Description
Name	Required	Name for an external data provider
ProviderType	Required	Indicates the type of the provider (such as Polling with DR, Polling without DR, EDOS)
Checksum Mandatory	Optional	Indicates that the Data Provider *must* provide checksum information in the PDR.
% Files to Checksum	Required	Percent of requests to checksum for this provider
Default Priority	Required	Default priority for ingest requests for this provider

DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Providers parameters can be selected, edited and removed:**

Field Name	Entry	Description
Preprocessing Type	Required	Type of ingest processing to occur (such as SIPS or DDIST)
Max Active Data Volume	Required	Maximum total active data volume that will be allocated to a provider if requests for other providers are pending
Max Active Granules	Required	Maximum total active granules that will be allocated to a provider (if requests for other providers are pending)
Transfer Type	Required	Method used for obtaining files from the external data provider (local, FTP, SCP or HTTP with various cipher types)
Notification Method	Required	Method for providing notifications to the provider (email, SCP, FTP, HTTP or combination of SCP/FTP/HTTP and email)
Email Address	Required if email is the notification method	Address to which to send notifications after a granule on the provider completes ingest
Write Login User ID	Required if FTP or SCP is the notification method. Optional if HTTP is the notification method.	User Id for getting write permissions on the provider's notification directory
Write Info: Password	Required if FTP or SCP is the notification method. Optional if HTTP is the notification method.	Checkbox displays a password and verify password field that are used to provide access to the provider's notification directory

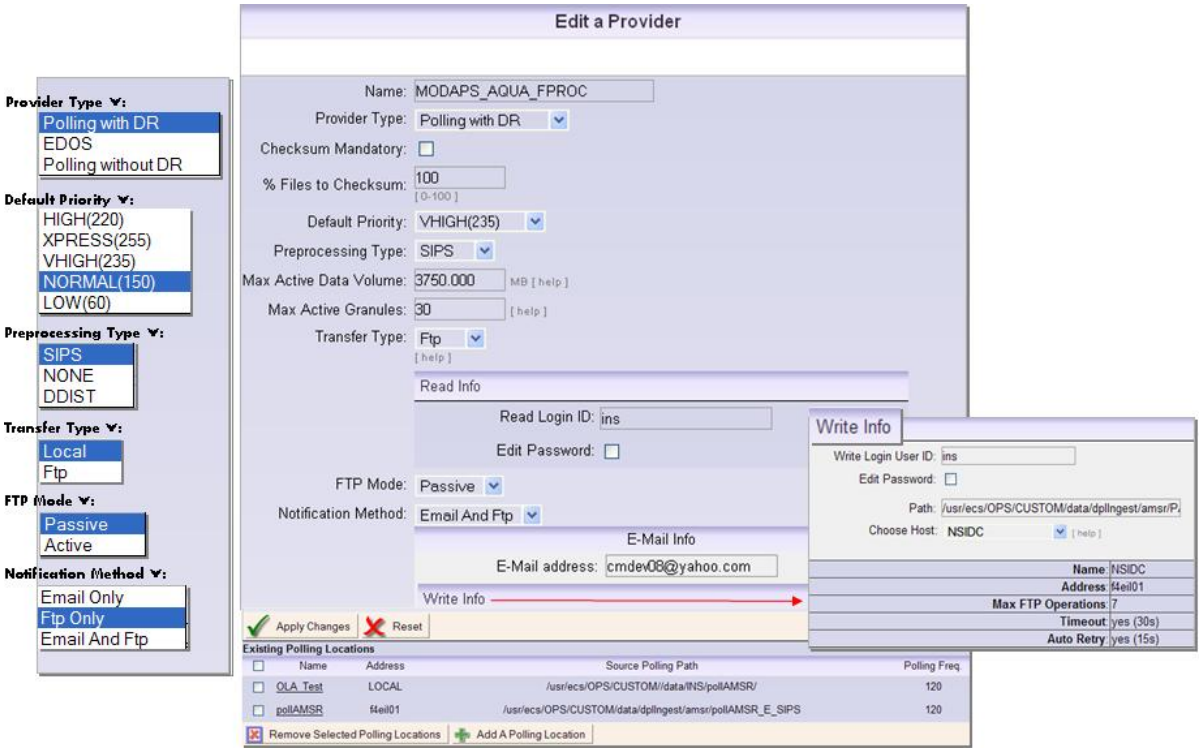
DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Providers parameters can be selected, edited and removed:**

Field Name	Entry	Description
Path	Required if FTP, HTTP or SCP is the notification method	For FTP or SCP, Directory where notifications will be sent on the provider. For HTTP, URL location where notifications will be sent on the provider.
Choose Host	Required if FTP, HTTP or SCP is the notification method	Host where the notification path can be found (list is generated from hosts configured on the Host Configuration page)
Read Login Id	Required if a polling location uses FTP or SCP. Optional if HTTP is the polling method.	User Id for getting read permissions on the provider's polling directories
Read Info: Edit Password	Required if a polling location uses FTP or SCP. Optional if HTTP is the polling method.	Checkbox displays a password and verify password field that are used to provide access to the provider's polling directories

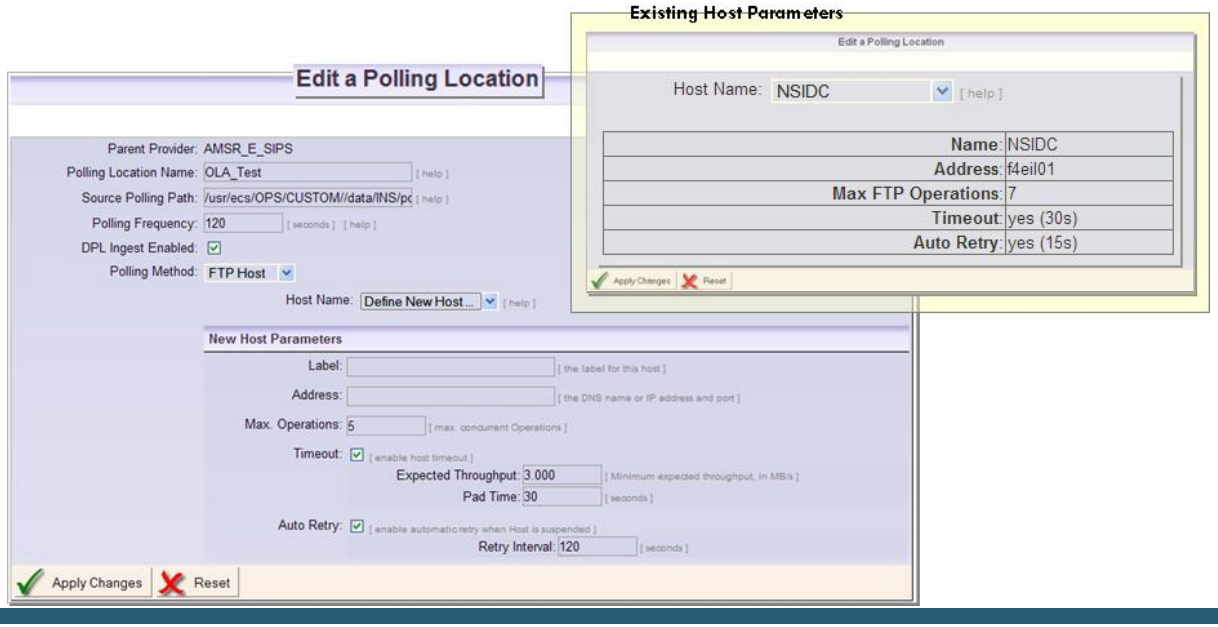
DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Procedure: Edit Provider**
  - Select the **Configuration, Providers** link.
  - Click the **Provider ID** on the Provider Configuration page.
  - Click the **parameter,** make change, then click **Apply Changes** button.
  - Select **OK.**



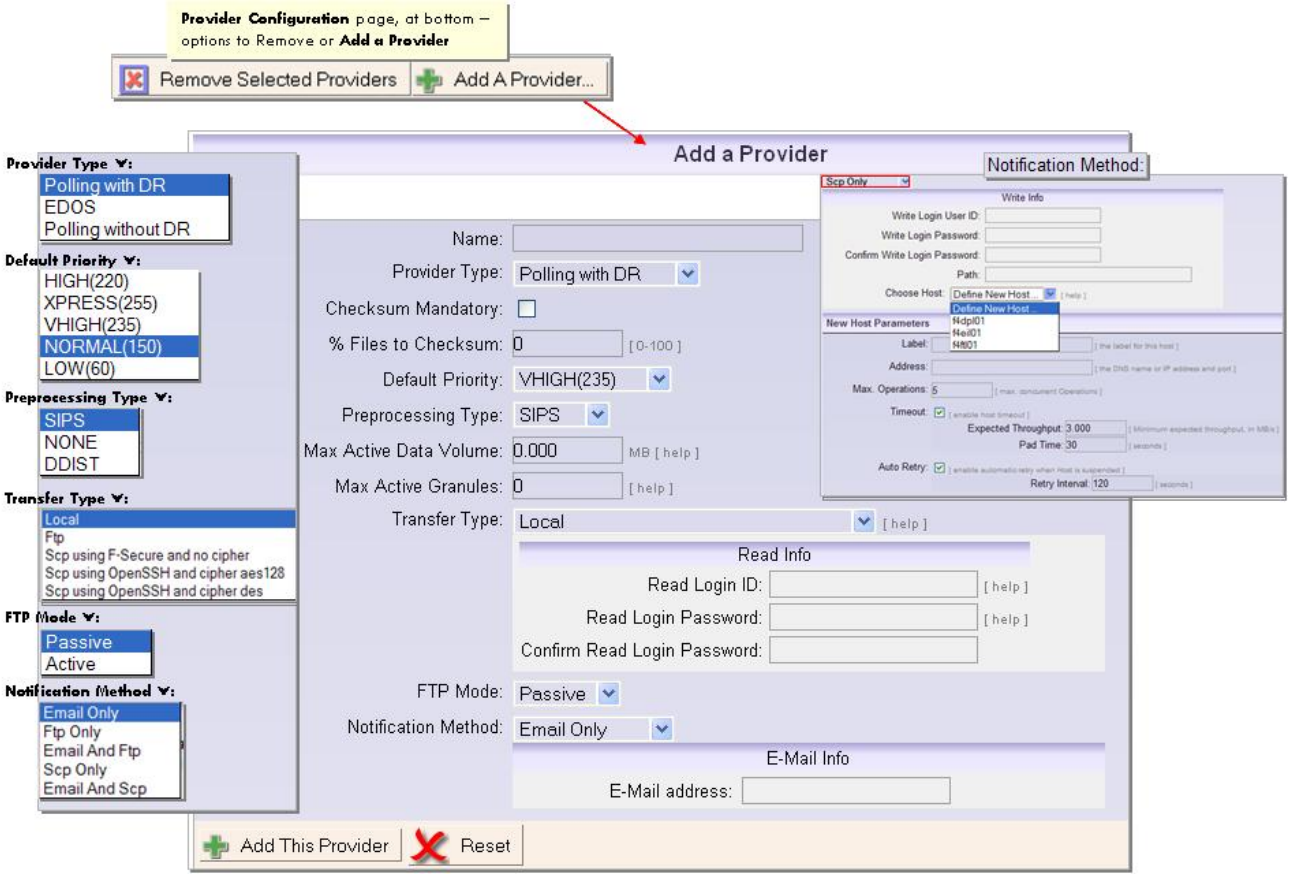
DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Procedure: Edit Polling Location**
  - Select the **Configuration, Providers** link.
  - Click on the **Provider ID.**
  - At bottom of information panel, click the **Polling Location Name.**
  - Update information and click the Apply Changes button
  - Select **OK** at the Confirmation prompt.



DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **New Providers are added by clicking the Add Provider button.**
- **Procedure: Add a Provider**



DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Procedure: Add a Provider (cont.)**
  - At **Add a Provider** page, populate fields:
  - ***NOTE**: EDOS Providers have several special rules:*
    - *A Processing Type is not allowed*
    - *FTP Transfer Type and FTP Notification methods can on be used – auto-enforced within GUI.*
    - Enter a unique provider **Name**.
    - Select **Provider Type** from list. Automatic updates parameters fields.
    - Click **Checksum Mandatory** checkbox**.**
    - Enter **% Files To Checksum.**
    - Enter **Default Priority:**
      - Low (60), Normal (150), High (220), VHIGH (235), XPRESS (255)
    - Select **Preprocessing Type:**
      - NONE
      - SIPS
      - DDIST

DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Procedure: Add a Provider (cont.)**
  - Enter **Max Active Data Volume** (in MB)
  - Enter **Max Active Granules**
  - Select **Transfer Type.**
  - Select **FTP Mode if Data Transfer is FTP.**
  - Select **Notification Method:**
    - Email Only
    - FTP Only, SCP Only or HTTP Only
    - Email and FTP, or Email and SCP, or Email and HTTP
  - Enter **E-Mail address.**
  - Click the **Add This Provider** button.
  - Click **OK** to confirm input.

DPL Ingest Configuration
Modify Configuration Providers (cont.)

- **Procedure: Add a Polling Location**
  - Select the Provider name
  - Scroll to the bottom of the page and select the Add A Polling Location button
  - Enter the Polling Location Name
  - Enter the Source Polling Path
  - Enter the Polling Frequency
  - Choose the Polling Method
    - Local Disk, FTP Host, SCP Host or HTTP Host
  - Enter New Host Parameters
    - Label, Address
  - Select Add Polling Location button
  - Select OK to the Confirmation prompt

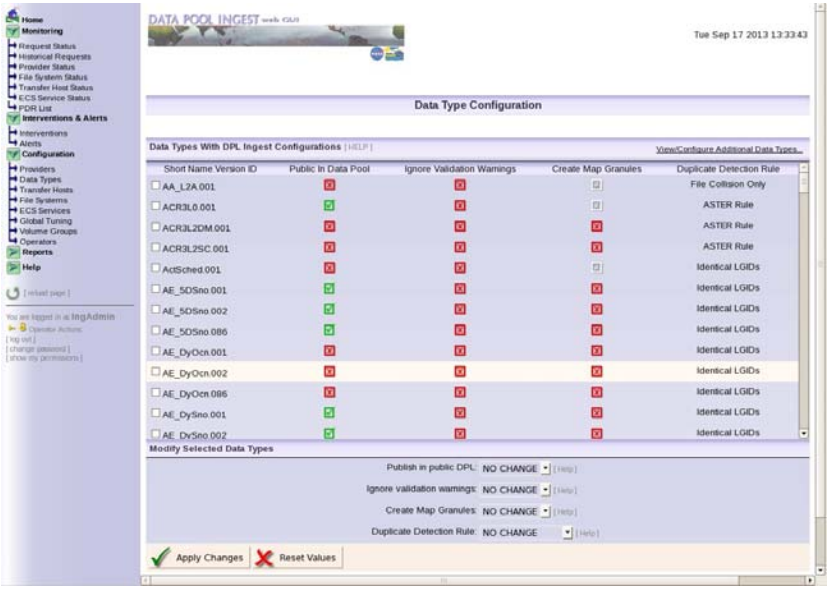
DPL Ingest Configuration
Data Type Configuration

- **Any ECS collection is eligible for DPL ingest.**
- **Ability to configure whether to publish the granules for collection, whether to ignore XML metadata validation warnings during ingest, and whether to enable the creation of HDF map granules for the science granules of this collection.**
- **Data Type Configuration page field descriptions:**

Field Name	Entry	Description
Short Name.Version ID	Not Editable	Data Type identifier or name. Version number of the data type (the identifier and version id is separated by a period)
Public In Data Pool	Editable	Indicates whether or not to "publish data" for this data type in the public Data Pool following successful Ingest.
Ignore Validation Warnings	Editable	If a granule of a given data type has metadata validation warnings, indicates whether or not to send email notifications and save metadata fie to a holding directory.
Create Map Granules	Not Editable, if there is a gray **X** box for the data type: Editable otherwise.	Indicates whether or not HDF Map Granules are created for science granules of this data type.
Duplicate Detection Rule	Editable	The rule for detecting duplicate granule during granule registration.

DPL Ingest Configuration
Data Type Configuration

- **Procedure: Managing Data Type Attributes**
  - Select the **Configuration, Data Types** link.
  - Click the checkbox of the **Short Name Version ID**.
  - At page bottom, make the desired parameter changes:
    - Select **Publish in public DPL**.
    - Select **Ignore validation warnings**, if XML validation warnings are to be ignored .
  - Select **Apply Changes** button.
  - Select **OK** at the confirmation **prompt.**



DPL Ingest Configuration
Transfer Host Configuration

- **The Configuration Transfer Host link allows the Operator to manage SCP, FTP, HTTP and Local hosts for general use in the Data Pool Ingest system.**
- **If the host IP addresses are referenced within PDRs as the source locations for granule files, DPL Ingest will automatically refer to their definition to obtain time out and retry parameters**
- **The Ingest Operator is able to define default time-out and retry parameters for SCP, FTP and HTTP hosts**
- **If a request is sent through processing with a host configured in the PDR that does not show up on the GUI, a new host will automatically be added**
  - **Default host configuration parameters will be applied to the new host until the operator chooses to modify them**

DPL Ingest Configuration
Transfer Host Configuration (cont.)

- **Host Configuration Page:**

Host Configuration

HELP

Existing FTP Hosts

Label	Address	Max. FTP Operations	Timeout (Expected Throughput + Pad Time)	Auto Retry Interval
NSIDC	f4eil01	7	3.000MB/s + 30s	15s
f4dpl01	f4dpl01.hitc.com	10	3.000MB/s + 30s	120s
f4eil01	f4eil01.hitc.com	5	3.000MB/s + 30s	120s

Remove Selected Hosts | Add A FTP Host...

HELP

Existing SCP Hosts

Label	Address	Max. SCP Operations	Timeout (Expected Throughput + Pad Time)	Auto Retry Interval
f4dpl01	f4dpl01	10	3.000MB/s + 30s	15s
f4eil01	f4eil01	25	3.000MB/s + 30s	20s
f4ftl01	f4ftl01	25	3.000MB/s + 30s	15s

Remove Selected Hosts | Add A SCP Host...

Default FTP Host Configurations

Max. FTP Operations: 5

Timeout (Expected Throughput + Pad Time): 3.000MB/s + 30s

Auto Retry Interval: 120s

Edit

Default SCP Host Configurations

Max. SCP Operations: 5

Timeout (Expected Throughput + Pad Time): 3.000MB/s + 30s

Auto Retry Interval: 120s

Edit

Local Host Configurations

Max. Local Operations: 5

Timeout (Expected Throughput + Pad Time): 3.000MB/s + 30s

Auto Retry Interval: 120s

Edit

DPL Ingest Configuration
Add SCP, FTP or HTTP Host

- **Procedure: Add SCP, FTP or HTTP Host**
  - Select the **Configuration** link.
  - Select **Transfer Host** link.
  - In the **Existing FTP Host** or **Existing SCP Hosts** or **Existing HTTP Host** section, Select **Add A [FTP/SCP/HTTP] Host** button.
  - Enter **Unique Name** in the **Label** field.
  - Enter the **IP Address** in the **Address** field.
  - Enter the **Max. Operations** parameter.
  - If **Timeout** is selected, enter the **Expected Throughput** and **Pad Time** parameters.
  - If **Auto Retry** is selected, enter the **Retry Interval**
  - Click **Add This Host** button.

DPL Ingest Configuration
File System

- **The File System Configuration page allows:**
  - **The Operator to configure warning thresholds for regular file system or archive file systems.**
  - **The Operator to configure suspension thresholds for regular file system or archive file systems.**
  - **File Systems displays these thresholds:**
    - Cache Warning Threshold
    - Cache Full Threshold
    - Cache Warning Low Watermark
    - Cache Full Low Watermark
    - Warning Threshold (Data Pool System)
    - Warning Low Watermark (Data Pool System)

DPL Ingest Configuration
File System (cont.)

- **Procedure**
  - Select the **Configuration Link, File System** link.
  - Make changes, then click the **Update** button.

File System Configuration

[HELP]

XMLArchive /stornext/smallfiles

Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	88	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	99	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	85	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	95	[percent]

Amfs1 /stornext/amfs1/

Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	76	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	80	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	60	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	70	[percent]

Browfs /stornext/browfs/

Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	90	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	99	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	88	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	95	[percent]

Snfs1 /stornext/snfs1/

Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	90	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	99	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	88	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	95	[percent]

Update Reset

[HELP]

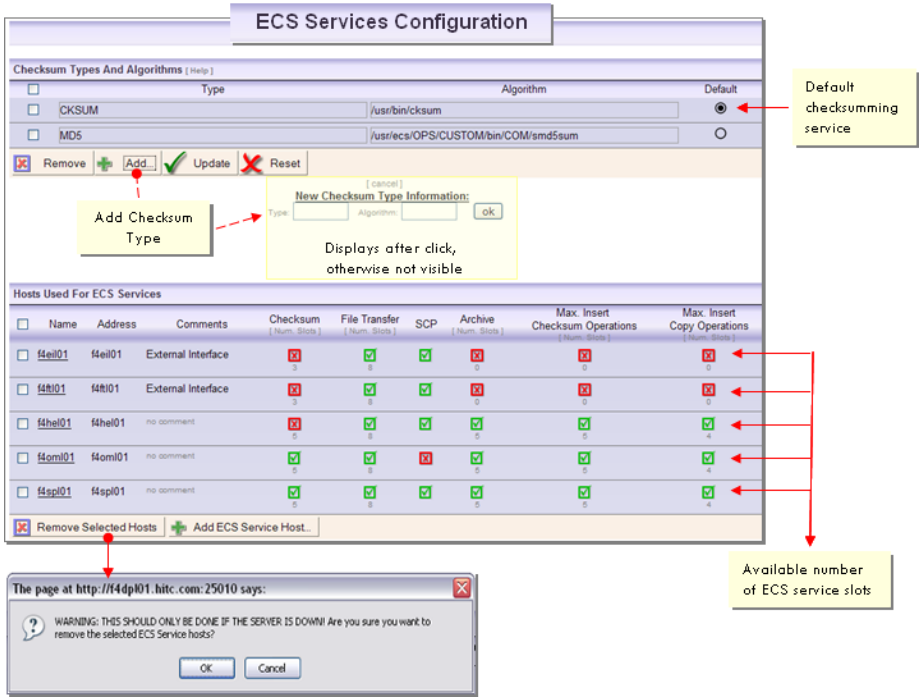
DataPool File System

Warning Threshold	The percentage of cache used which will trigger an operator alert	90	[percent]
Warning Low Watermark	The percentage of cache used that will clear the File System Warning Alert	81	[percent]

Update Reset

DPL Ingest Configuration
ECS Services

- **ECS Services Configuration page allows the Operator to:**
  - **Configure the parameters of ECS services on a host-specific**
    - A default checksum type and algorithm can also be set for use by the checksumming service hosts
  - **The ECS Services Configuration page contains two sections:**
    - Checksum Type and Algorithm Configuration
    - Host Used For ECS Service
  - **With proper functionality configuration can allow Operator to select the Host from which AIM will be run.**



DPL Ingest Configuration
ECS Services (cont.)

- **ECS Services Configuration Add Service Host Fields:**

Field Name	Entry	Description
Label	Required	A unique name for the ECS Service host, preferably based on the actual host name.
Address	Required	The IP address (e.g., 127.5.2.88) or canonical name (e.g., f4eil01.hitc.com) of the host.
Quick Server Port	Required	The Quick Server port number associated with this service. Hint: the Quick Server port can be determined by looking at the quickserver's configuration file.
Auto Retry	Optional	Whether or not to automatically retry processing of actions for all services enabled on this host.
Comment	Optional	The description of the host and its services.
Checksum:		
Enable this service	Optional	Whether or not to use this service.
Max. Concurrent Checksum Operations	Required if enabled	The maximum number of concurrent checksum operations that may be performed on this host at any one time.
Expected Throughput	Required if enabled	The expected data throughput for checksum operations. This is to identify stuck operations,
Checksum Timeout Pad Time	Required if enabled	The additional delay for a checksum operation before it is considered timed-out.

DPL Ingest Configuration
ECS Services (cont.)

- **ECS Services Configuration Add Service Host Fields: (cont.)**

File Transfer:		
Enable this service	Optional	Whether or not to use this service.
Enable SCP	Optional	Whether or not to use SCP as the file transfer method.
Ftp Service Port	Required if enable	Ftp Service port number associated with this service. Hint: the Ftp Service port can be determined by looking at the FtpService's configuration file.
Max Concurrent File Transfers	Required if enabled	The maximum number of concurrent file transfers that may be executed on this host.
Archiving:		
Enable this service	Optional	Whether or not to use this service.
Max Concurrent Archive Operations	Required if enabled	The maximum number of concurrent archive operations that may be executed on this host.
Expected Throughput	Required if enabled	The expected data throughput for archive operations. This is to identify stuck operations.
Archive Timeout Pad Time	Required if enabled	The additional delay for an archive operation before it is considered timed-out.
Band Extraction:		
Enable this service	Optional	Whether or not to use this service.
Max. Concurrent Band Extractions Required if enabled The maximum number of concurrent band extraction operations that may be executed on this host.	Max. Concurrent Band Extractions Required if enabled. Maximum number of concurrent band extraction operations that may be executed on this host.	Max. Concurrent Band Extractions Required if enabled The maximum number of concurrent band extraction operations that may be executed on this host.

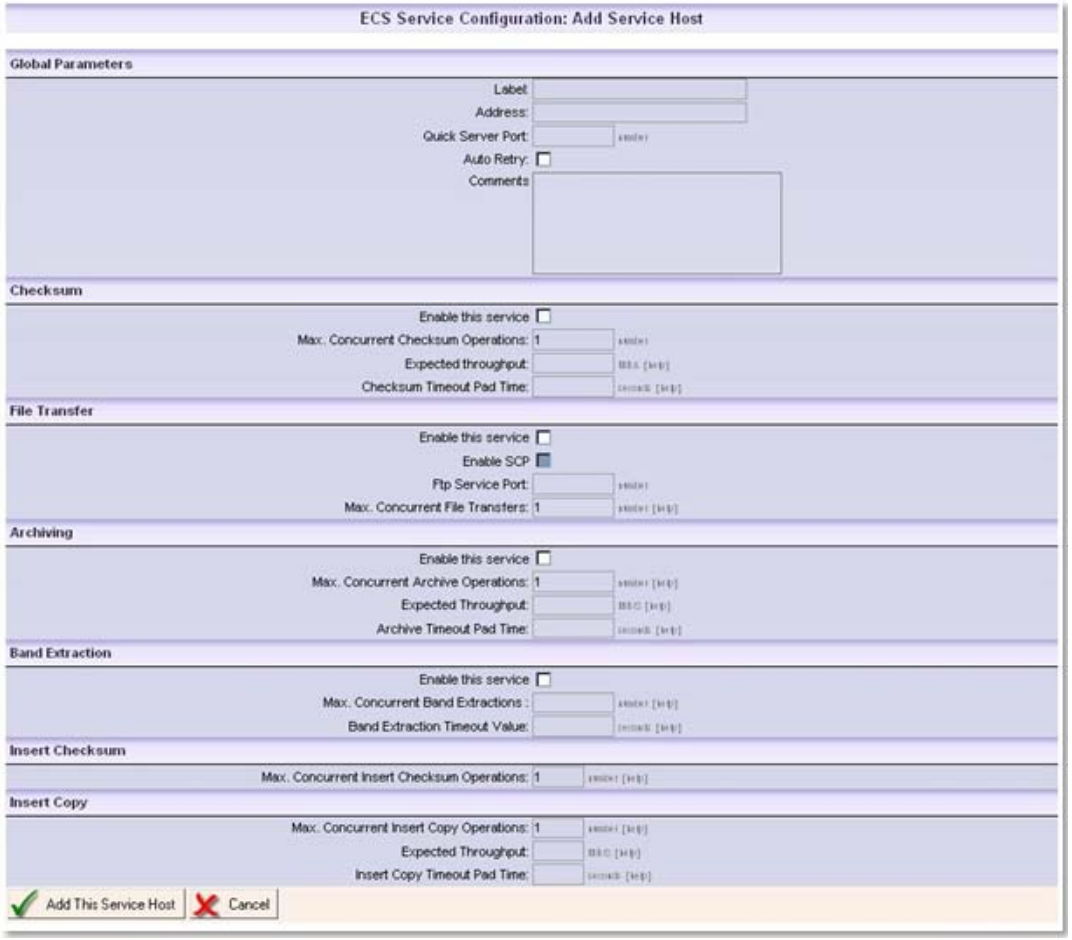
DPL Ingest Configuration
ECS Services (cont.)

- **ECS Services Configuration Add Service Host Fields: (cont.)**

Band Extraction: (cont)		
Band Extraction Timeout ValueRequired if enabled. The number of seconds for a band extraction operation before it is considered timed-out.	Band Extraction Timeout ValueRequired if enabled. The number of seconds for a band extraction operation before it is considered timed-out.	Band Extraction Timeout ValueRequired if enabled. The number of seconds for a band extraction operation before it is considered timed-out.
Insert Checksum		
Max. Concurrent Insert Checksum Operations (Optional). The maximum number of concurrent Insert Checksum operations that may be executed on this host.	Max. Concurrent Insert Checksum Operations (Optional). The maximum number of concurrent Insert Checksum operations that may be executed on this host.	Max. Concurrent Insert Checksum Operations (Optional). The maximum number of concurrent Insert Checksum operations that may be executed on this host.
Insert Copy		
Max. Concurrent Insert Copy Operations	Required	The maximum number of concurrent Insert Copy operations that may be executed on this host.
Expected Throughput	Required	The expected data throughput for Insert Copy operations. This is to identify stuck operations.
Insert Timeout Pad Time	Required	The additional delay for an Insert Copy operation before it is considered timed-out.

DPL Ingest Configuration
ECS Services (cont.)

- **Procedure: Add Checksum Type**
  - Select the **Configuration Link**
  - Select **ECS Services** Link.
  - In the Checksum Types and Algorithms, click the **Add** button.
  - Click in the **Type** textbox and enter the **Checksum Type**.
  - Click in the input box next to **Algorithm** and enter the Algorithm location.
  - Select the **OK** button.



DPL Ingest Configuration
ECS Services (cont.)

- **Procedure: Add Checksum Type (cont)**
  - **NOTE:** There are two time-out parameters that the Ingest Service uses to determine when an operation should be considered overdue (i.e., timed-out) and cancels it. The two parameters are: (1) the expected throughput; (2) the time out pad time.
  - The Ingest Service will calculate the expected time of the operation for a granule by dividing the granule size by the expected throughput, and then add the time out padding. These parameters are only used to determine when an operation should be considered hung, so both the expected throughput and the time-out padding should be chosen pessimistically to avoid canceling operations that are just slow because of concurrent heavy workload.

DPL Ingest Configuration
ECS Services (cont.)

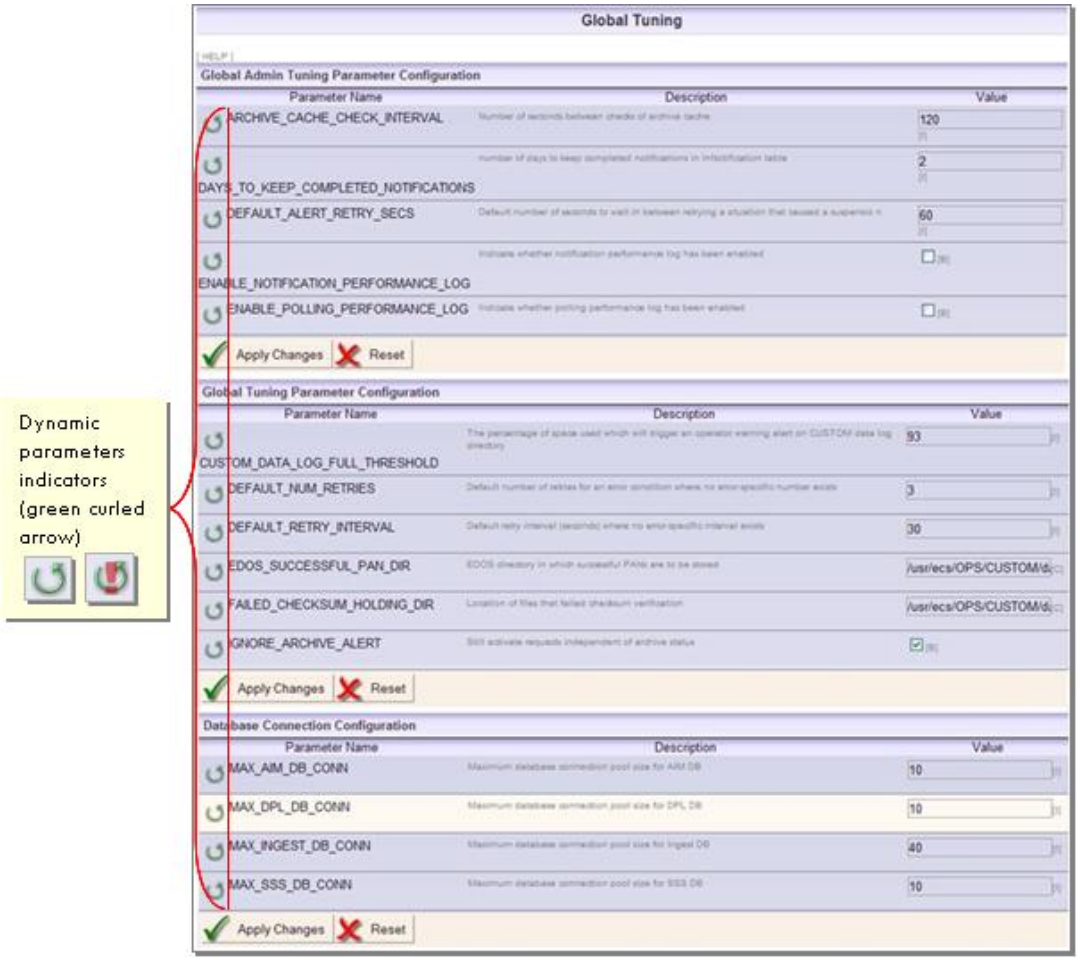
- **Procedure: Add ECS Service Host Type**
  - Select the **Configuration Link, ECS Services** Link.
  - In the **Hosts Used For ECS Services** section, click on the **Add ECS Service Host** button.
  - Enter the **Global Parameters.**
  - Enter the **Checksum** parameters.
  - Enter the **File Transfer** parameters.
  - Enter the **Archiving** parameters.
  - Enter the **Band Extraction** parameters.
  - Enter the **Insert Checksum** parameter.
  - Enter the **Insert Copy** parameters.
  - Select the **Add This Service Host** button.
  - **Note: An existing service host may be edited by clicking on the [Name] of the desired host located in the Hosts Used For ECS Services section.**

DPL Ingest Configuration
Global Tuning Configuration

- **The Global Tuning link allows the operator to configure the Parameter Name and Value of the global tuning parameters in the Data Pool Ingest database**
- **Three sections for Global Tuning**
  - **Global Admin Tuning Parameters**
    - Requires Ingest Admin Tuning privileges
  - **Global Tuning Parameter Configuration**
    - Requires Tuning privileges
  - **Database Connection Configuration**
    - Requires Tuning privileges
- **Dynamic parameters are those that are applied to the Ingest Service without having to restart the Ingest Service. Two new parameters 1) to "Handle Multiple Linkage Granule" whether to fail (FAIL) link to most recent insertTime (RECENT) or invoke and Operator intervention (INTERV) for Browse, PH, or QA granule and 2) "Mins to Keep Completed Messages"**
- **Static parameters are those that require the Ingest Service to be restarted**

DPL Ingest Configuration
Global Tuning Configuration (cont.)

- **Procedure: Change Global Tuning**
  - Reminder: Must have special **Ingest Admin** or **Tuning** permissions
  - Select the **Configuration** link
  - Select the **Global Tuning** link
  - In the **Value** field of the Parameter to be changed enter the new value
  - Click the **Apply Changes** button
  - Select **OK**

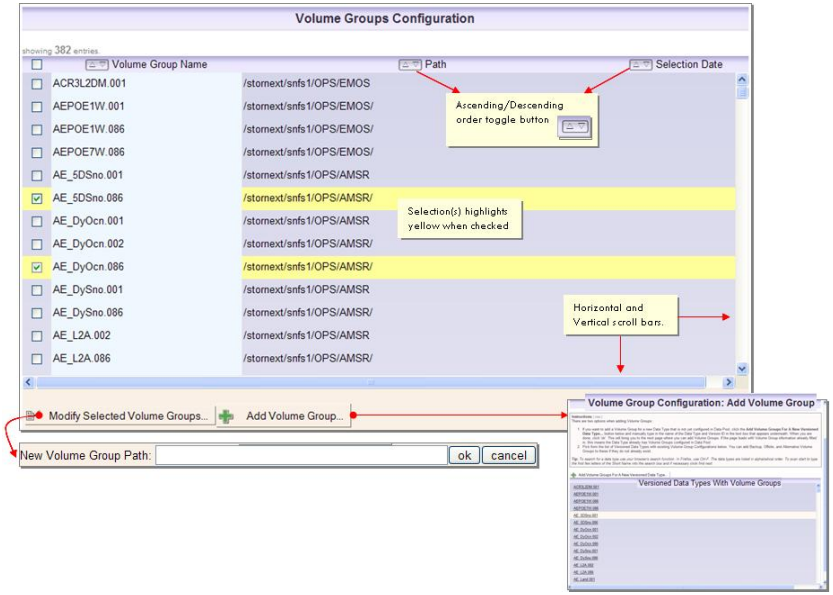


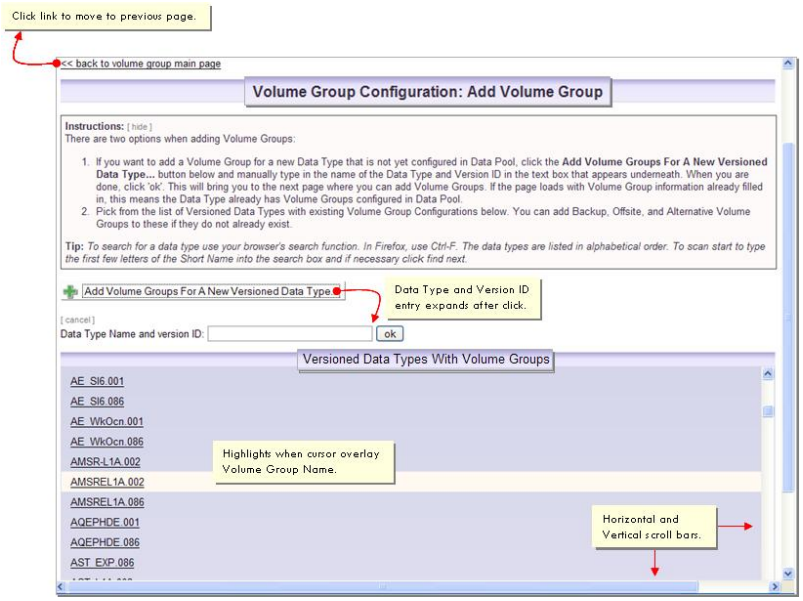
DPL Ingest Configuration
Volume Groups Configuration

- **The Volume Group configuration in the DPL Ingest GUI was developed to duplicate the functionality in the decommissioned STMGT GUI tab with minor refinements and enhancements.**
- **The Volume Groups Configuration page is divided into four distinct columns**
  - **Volume Group name**
  - **Path**
  - **Selection Date**
  - **New Volume Group Path**

DPL Ingest Configuration
Volume Groups Configuration (cont.)

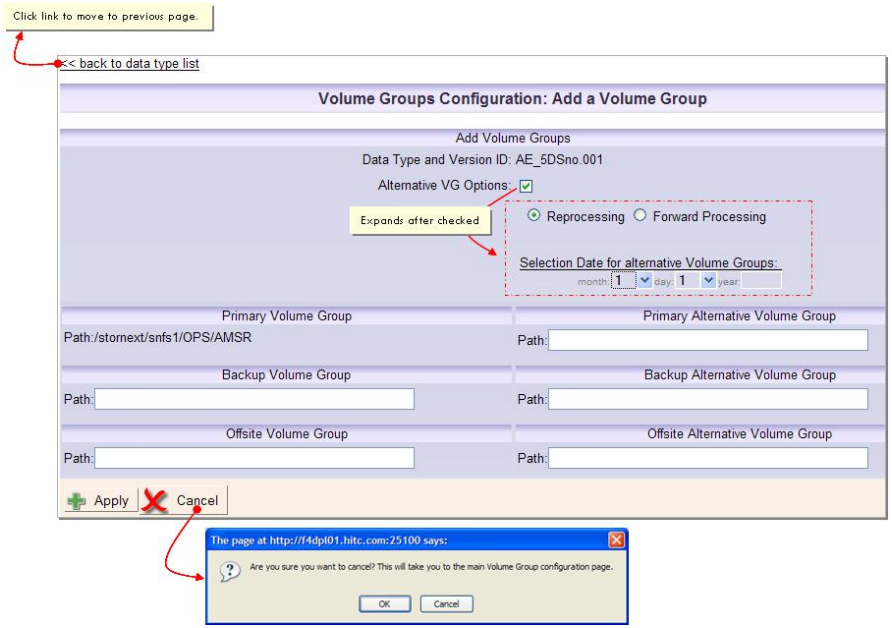
- **Procedure: Add Volume Groups for New Data Type**
  - Select the **Configuration, Volume Group** link.
  - Click the **Add Volume Group** button.
  - Click **Add Volume Groups For A New Versioned Data Type** button.
  - Enter the **Name** and **Version ID** data in edit window, then click **OK**.
  - **Volume Group Configuration: Add a Volume Group** window appear.





DPL Ingest Configuration
Volume Groups Configuration (cont.)

- **Procedure: Add Volume Groups for New Data Type (cont.)**
  - If Alternate Volume Group specified, click the **Alternate VG** checkbox.
  - If adding Alternate Volume Group history set, click the **Reprocessing** or **Forward Processing** button.
  - If adding Alternate Volume Group history set, select appropriate **Date** to set for storing/retrieving data.



DPL Ingest Configuration
Volume Groups Configuration (cont.)

- **Procedure: Add Volume Groups for New Data Type (cont.)**
  - Enter the fully qualified Unix path to the **Primary Archive.**
  - Enter the fully-qualified Unix path for the **Primary Alternate Archive.**
  - Enter the fully-qualified Unix path for the **Backup Archive.**
  - Enter the fully-qualified Unix path for the **Backup Alternate Archive.**
  - Enter the fully-qualified Unix path for the **Offsite Archive.**
  - Enter the fully-qualified Unix for the **Offsite Alternate Archive.**
  - Click the **Apply** button, then click **OK**.

DPL Ingest Configuration
Volume Groups Configuration (cont.)

- **Procedure: Volume Groups Existing Data Type**
  - Select the **Configuration, Volume Group** link.
  - Select the **Add Volume Group** button.
  - Click on **Versioned Data Type.**
  - **Volume Group Configuration: Add a Volume Group** window is displayed.
  - If Alternate Volume Group was specified, click on **Alternate VG** textbox.
  - If adding Alternate Volume Group history set, click the **Reprocessing** or **Forward Processing** button.
  - If adding Alternate Volume Group history set, select appropriate **Date** to set for storing/retrieving data.

DPL Ingest Configuration
Volume Groups Configuration (cont.)

- **Procedure: Volume Groups Existing Data Type (cont.)**
  - Enter the fully qualified UNIX path to the **Primary Archive.**
  - Enter the fully-qualified UNIX path for the **Primary Alternate Archive.**
  - Enter the fully-qualified UNIX path for the **Backup Archive.**
  - Enter the fully-qualified UNIX path for the **Backup Alternate Archive.**
  - Enter the fully-qualified UNIX path for the **Offsite Archive.**
  - Enter the fully-qualified UNIX for the **Offsite Alternate Archive.**
  - Click the **Apply** button, then click **OK.**

DPL Ingest Configuration
Volume Groups Configuration (cont.)

- **Procedure: Modify Volume Groups**
  - Select the **Configuration** link.
  - Select the **Volume Group** link.
  - Click the **Volume Group Name** checkbox
  - Click the **Modify Selected Volume Groups** button.
  - Enter the new **Volume Group Path.**
  - Click **OK**.

DPL Ingest Configuration
Operator Configuration

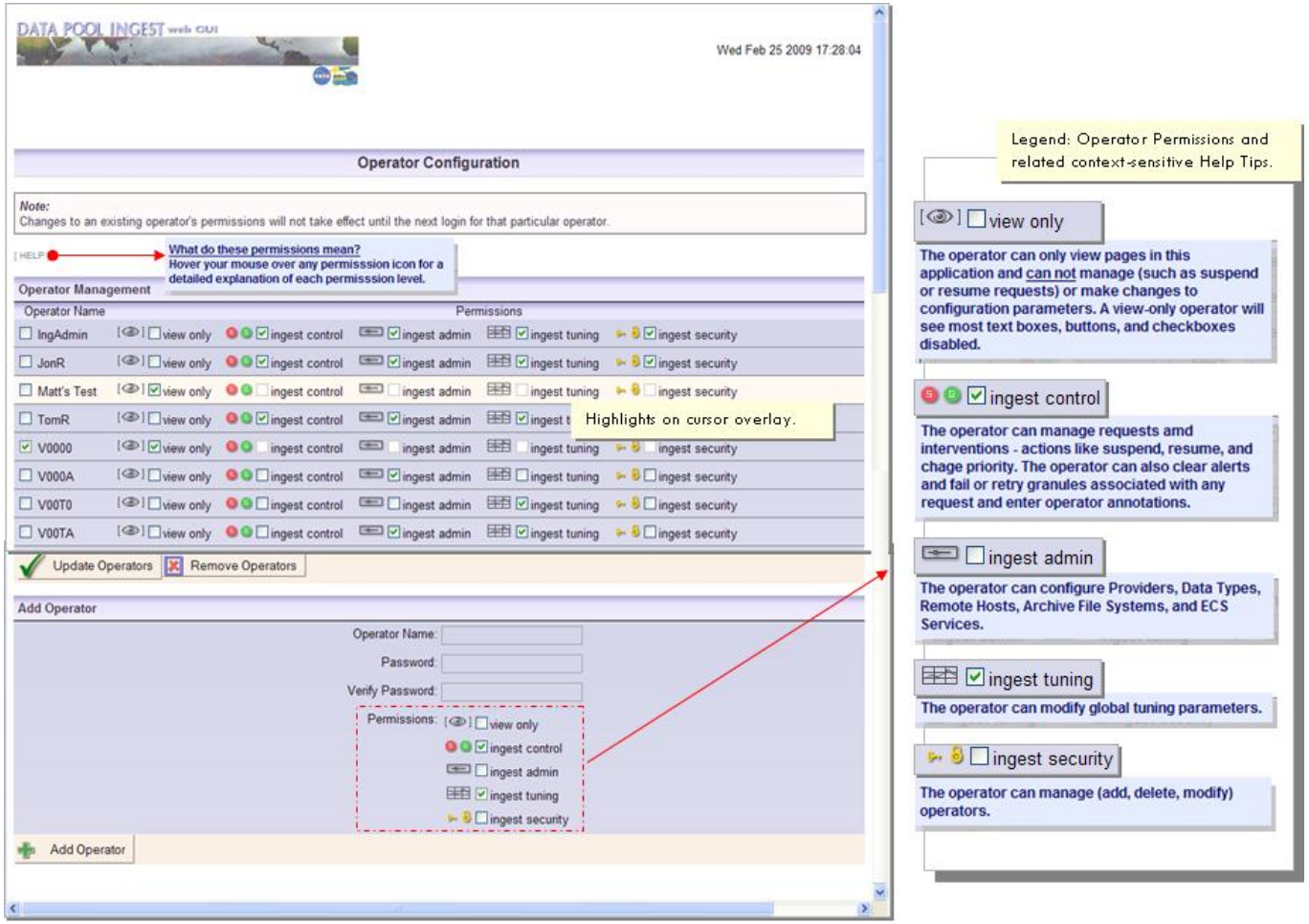
- **There are five permission levels for which an Operator may be assigned multiple permissions other than view only.**
- **The following are the Data Pool Ingest GUI permission levels:**
  - **View Only – The operator cannot alter or modify anything on the GUI, nor can he/she take actions .**
    - All textboxes, checkboxes, drop-down lists, etc. are disabled
  - **Ingest Control- The operator can manage Ingest requests and interventions.**
    - Can suspend or resume requests, place on hold and close interventions, fail or resume granules.
  - **Ingest Admin - The operator can alter general configuration parameters such has SCP/FTP/HTTP Host configuration, providers, data types**
    - This level of operator cannot modify tuning parameters.
  - **Ingest Tuning - The operator can alter global and host-specific tuning configuration parameters.**
  - **Security Admin - The operator can maintain security-related information like passwords and operators.**

DPL Ingest Configuration
Operator Configuration (cont.)

- **Procedure: Modify Operator Permission Settings**
- **Operator must have Security Admin access to perform:**
  - Select the **Configuration**, **Operators** link.
  - Click the checkbox of the **name of the operator** requiring changes.
  - Click the checkbox of the desired **permissions** change.
  - Click the **Update Operators** button, then click **OK.**

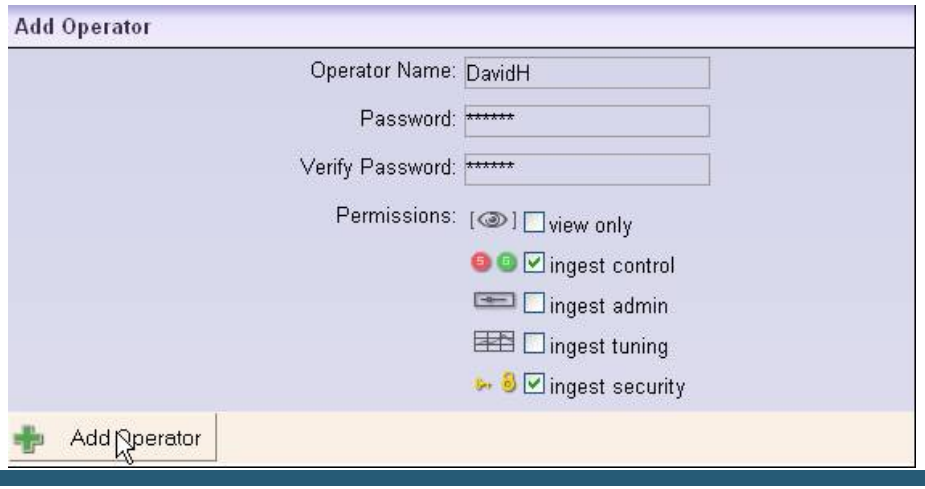
DPL Ingest Configuration
Operator Configuration (cont.)

- **Procedure: Modify Operator Permission Settings (cont.)**



DPL Ingest Configuration
Add Operator Permission Settings

- **Procedure: Add Operator Permission Settings**
  - Select the **Configuration**, **Operators** link.
  - Locate the **Operator Configuration** page, **Add Operator** section.
  - Perform the following to settings:
  - Enter the **Operator Name** .
  - Enter the **Password,** then **Verify Password.**
  - Select the **Permissions.**
  - Click the **Add Operators** button, then click **OK**.



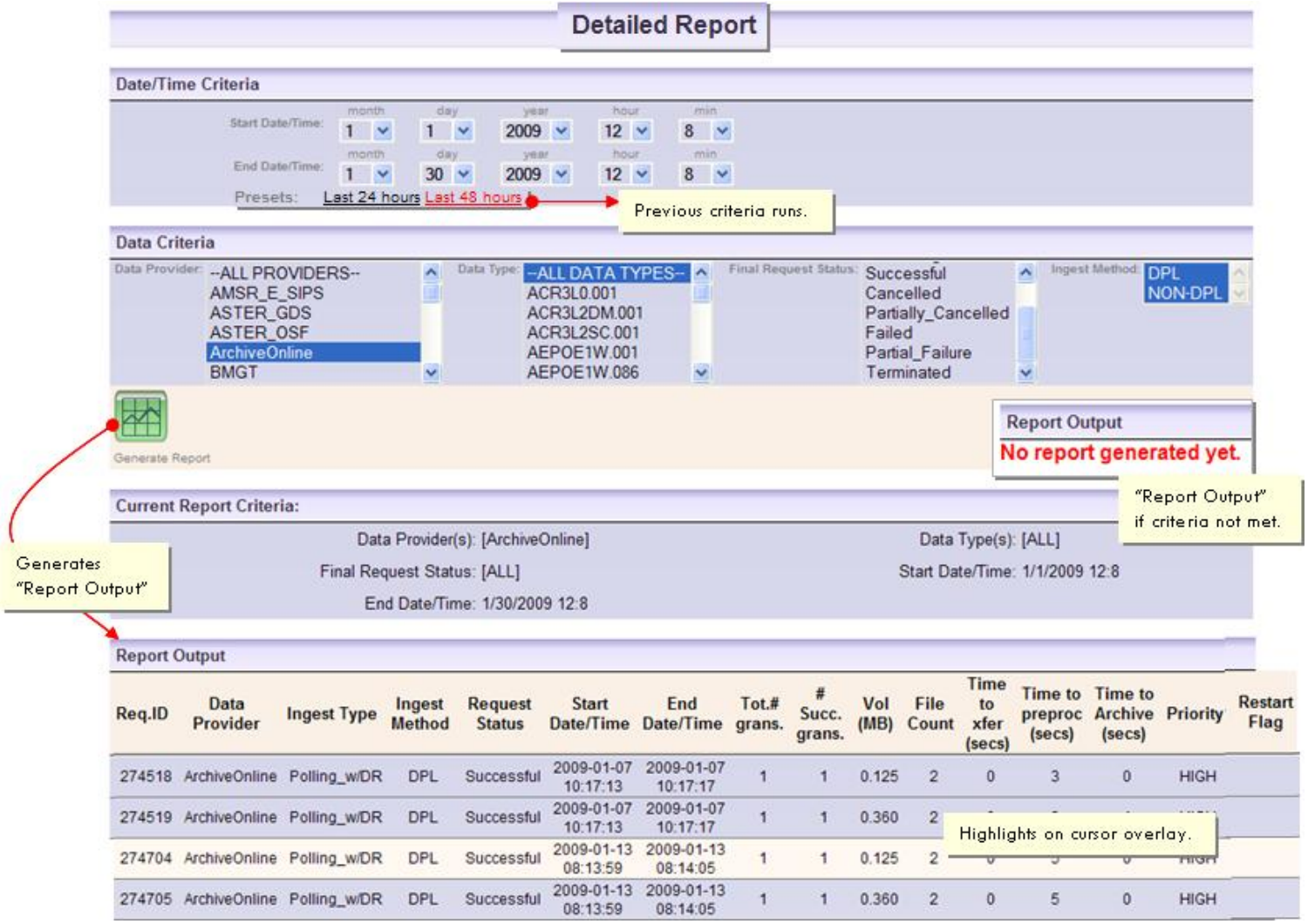
Reports
Generating Reports

- The reporting capability of the Ingest GUI offers the ability to view detailed reports on data providers, data types, request summary and granule summary reports
- The report pages display the information across data providers or data types
- Due to the large volume of data that may be in the database, reports can sometime take a while to process and be displayed
- Reports
  - Detailed
  - Request Summary
  - Granule Summary
  - Volume Group

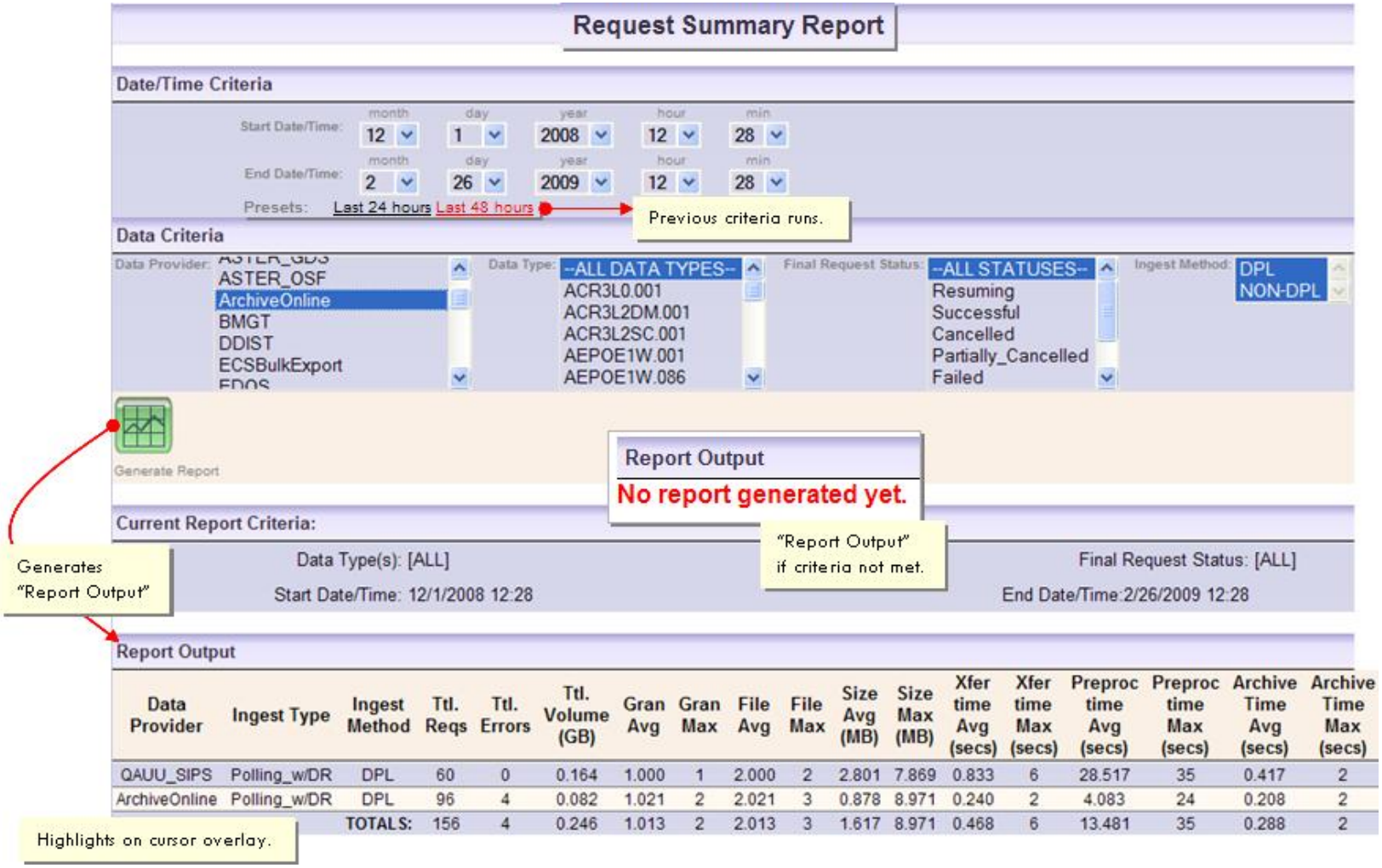
Reports
Generating Reports (cont.)

- **Procedure: Detailed, Report Summary or Granule Summary**
  - Select the **Reports** link.
  - Select **Detailed, Request Summary** or **Granule Summary** link.
  - Enter the **Start Date/Time** and **End Date/Time**.
  - Select the **Data Providers, Data Types**, one or more **Final Request Statuses**, and the **Ingest Method** (ie, DPL or Non-DPL).
  - Click the **Generate Report** button.

Reports
Generating Reports (cont.)

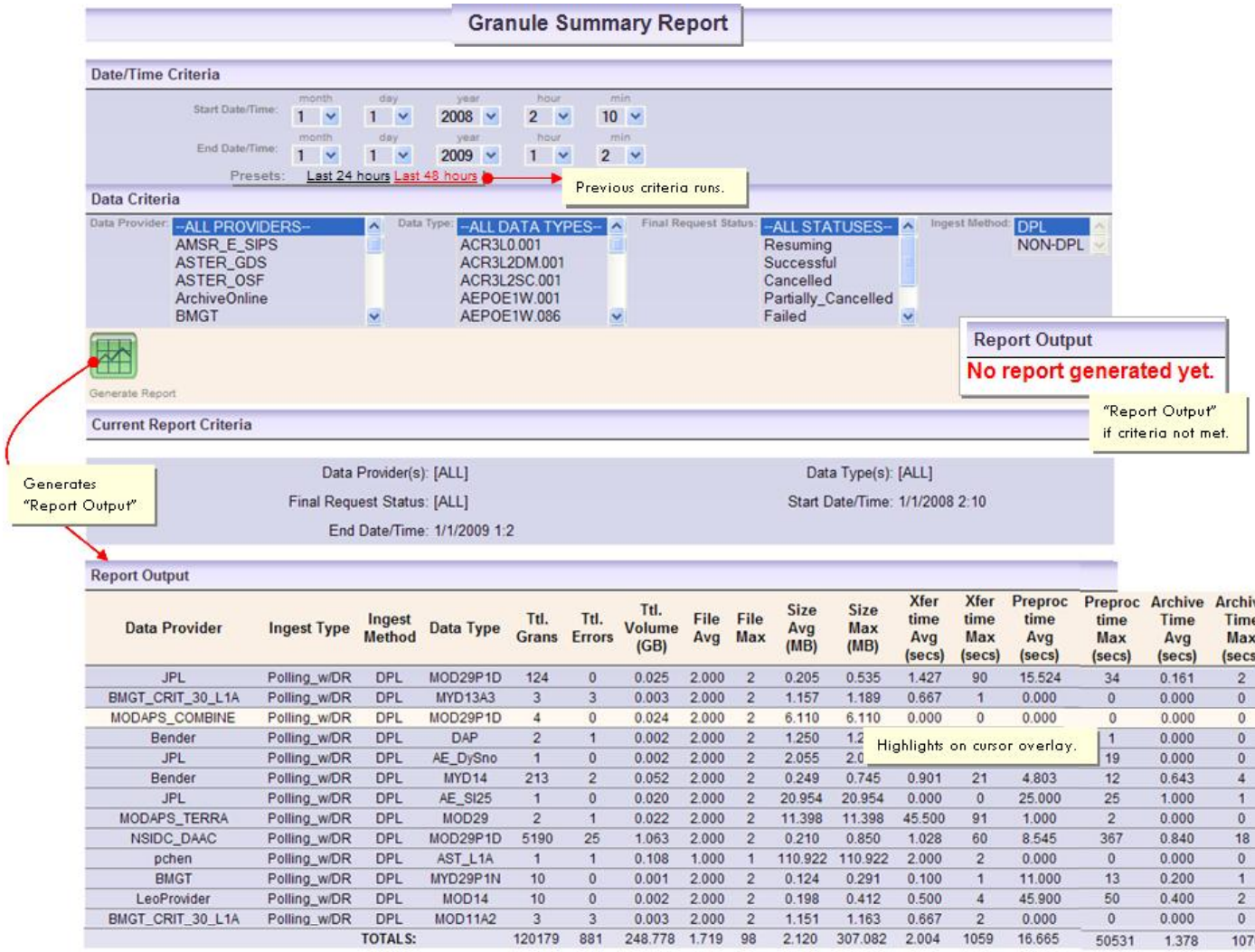


Reports
Generating Reports (cont.)



Data Provider	Ingest Type	Ingest Method	Ttl. Reqs	Ttl. Errors	Ttl. Volume (GB)	Gran Avg	Gran Max	File Avg	File Max	Size Avg (MB)	Size Max (MB)	Xfer time Avg (secs)	Xfer time Max (secs)	Preproc time Avg (secs)	Preproc time Max (secs)	Archive Time Avg (secs)	Archive Time Max (secs)
QAUU_SIPS	Polling_w/DR	DPL	60	0	0.164	1.000	1	2.000	2	2.801	7.869	0.833	6	28.517	35	0.417	2
ArchiveOnline	Polling_w/DR	DPL	96	4	0.082	1.021	2	2.021	3	0.878	8.971	0.240	2	4.083	24	0.208	2
		TOTALS:	156	4	0.246	1.013	2	2.013	3	1.617	8.971	0.468	6	13.481	35	0.288	2

Reports
Generating Reports (cont.)



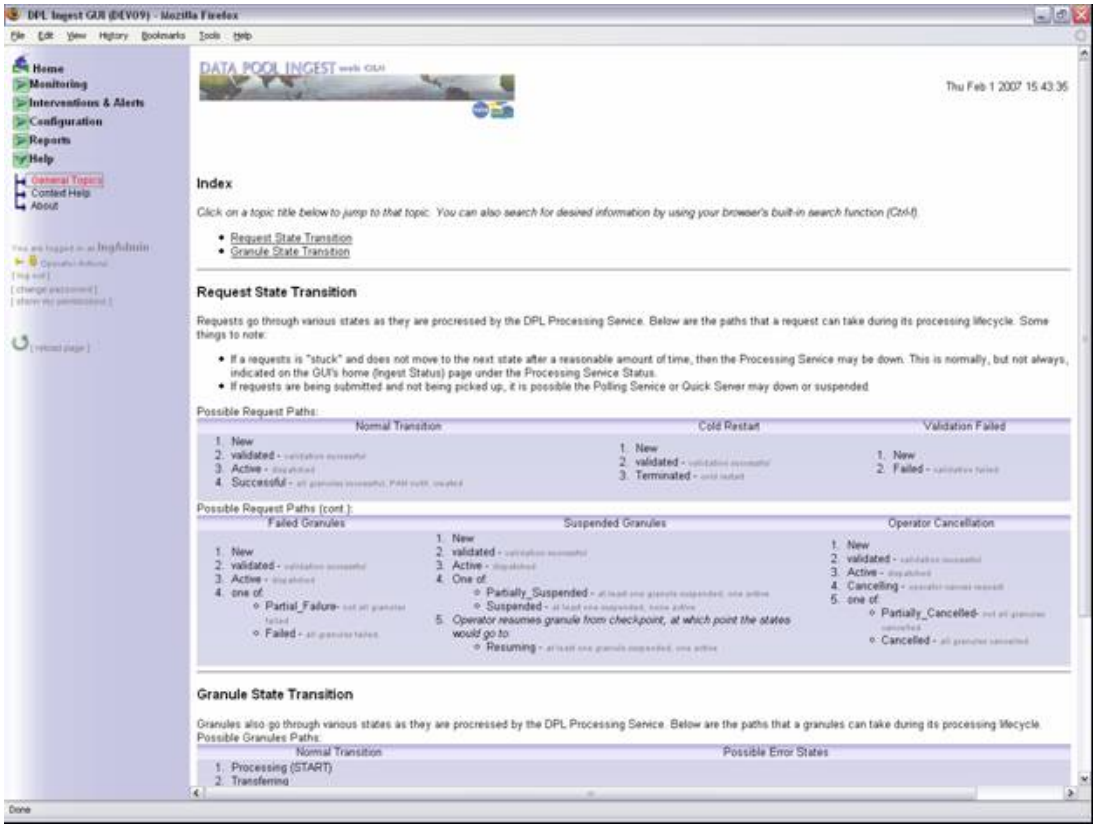
Data Provider	Ingest Type	Ingest Method	Data Type	Ttl. Grans	Ttl. Errors	Ttl. Volume (GB)	File Avg	File Max	Size Avg (MB)	Size Max (MB)	Xfer time Avg (secs)	Xfer time Max (secs)	Preproc time Avg (secs)	Preproc time Max (secs)	Archive Time Avg (secs)	Archive Time Max (secs)
JPL	Polling_w/DR	DPL	MOD29P1D	124	0	0.025	2.000	2	0.205	0.535	1.427	90	15.524	34	0.161	2
BMGT_CRIT_30_L1A	Polling_w/DR	DPL	MYD13A3	3	3	0.003	2.000	2	1.157	1.189	0.667	1	0.000	0	0.000	0
MODAPS_COMBINE	Polling_w/DR	DPL	MOD29P1D	4	0	0.024	2.000	2	6.110	6.110	0.000	0	0.000	0	0.000	0
Bender	Polling_w/DR	DPL	DAP	2	1	0.002	2.000	2	1.250	1.2				1	0.000	0
JPL	Polling_w/DR	DPL	AE_DySno	1	0	0.002	2.000	2	2.055	2.0				19	0.000	0
Bender	Polling_w/DR	DPL	MYD14	213	2	0.052	2.000	2	0.249	0.745	0.901	21	4.803	12	0.643	4
JPL	Polling_w/DR	DPL	AE_SI25	1	0	0.020	2.000	2	20.954	20.954	0.000	0	25.000	25	1.000	1
MODAPS_TERRA	Polling_w/DR	DPL	MOD29	2	1	0.022	2.000	2	11.398	11.398	45.500	91	1.000	2	0.000	0
NSIDC_DAAC	Polling_w/DR	DPL	MOD29P1D	5190	25	1.063	2.000	2	0.210	0.850	1.028	60	8.545	367	0.840	18
pchen	Polling_w/DR	DPL	AST_L1A	1	1	0.108	1.000	1	110.922	110.922	2.000	2	0.000	0	0.000	0
BMGT	Polling_w/DR	DPL	MYD29P1N	10	0	0.001	2.000	2	0.124	0.291	0.100	1	11.000	13	0.200	1
LeoProvider	Polling_w/DR	DPL	MOD14	10	0	0.002	2.000	2	0.198	0.412	0.500	4	45.900	50	0.400	2
BMGT_CRIT_30_L1A	Polling_w/DR	DPL	MOD11A2	3	3	0.003	2.000	2	1.151	1.163	0.667	2	0.000	0	0.000	0
		TOTALS:		120179	881	248.778	1.719	98	2.120	307.082	2.004	1059	16.665	50531	1.378	1076

Help

- **The Help section, contains information the operator can have readily available while operating the Data Pool Ingest GUI**
- **Three links**
  - **General Topics**
  - **Context Help**
  - **About**

Help
General Topics

- **Procedure**
  - Select the **Help** link.
  - Select the **General Topics** link.
  - Click on **Request State Transition** link.



Data Pool Management

- **Features of the Data Pool Maintenance GUI**
  - **Most Archive or support personnel tasks for monitoring and maintaining the Data Pool require the use of the Data Pool Maintenance (DPM) GUI.**
  - **The DPM GUI permits an Ingest operator to perform tasks in the following general areas:**
    - Managing Data Pool Collection Groups.
    - Managing Data Pool Collections within Collection Groups.

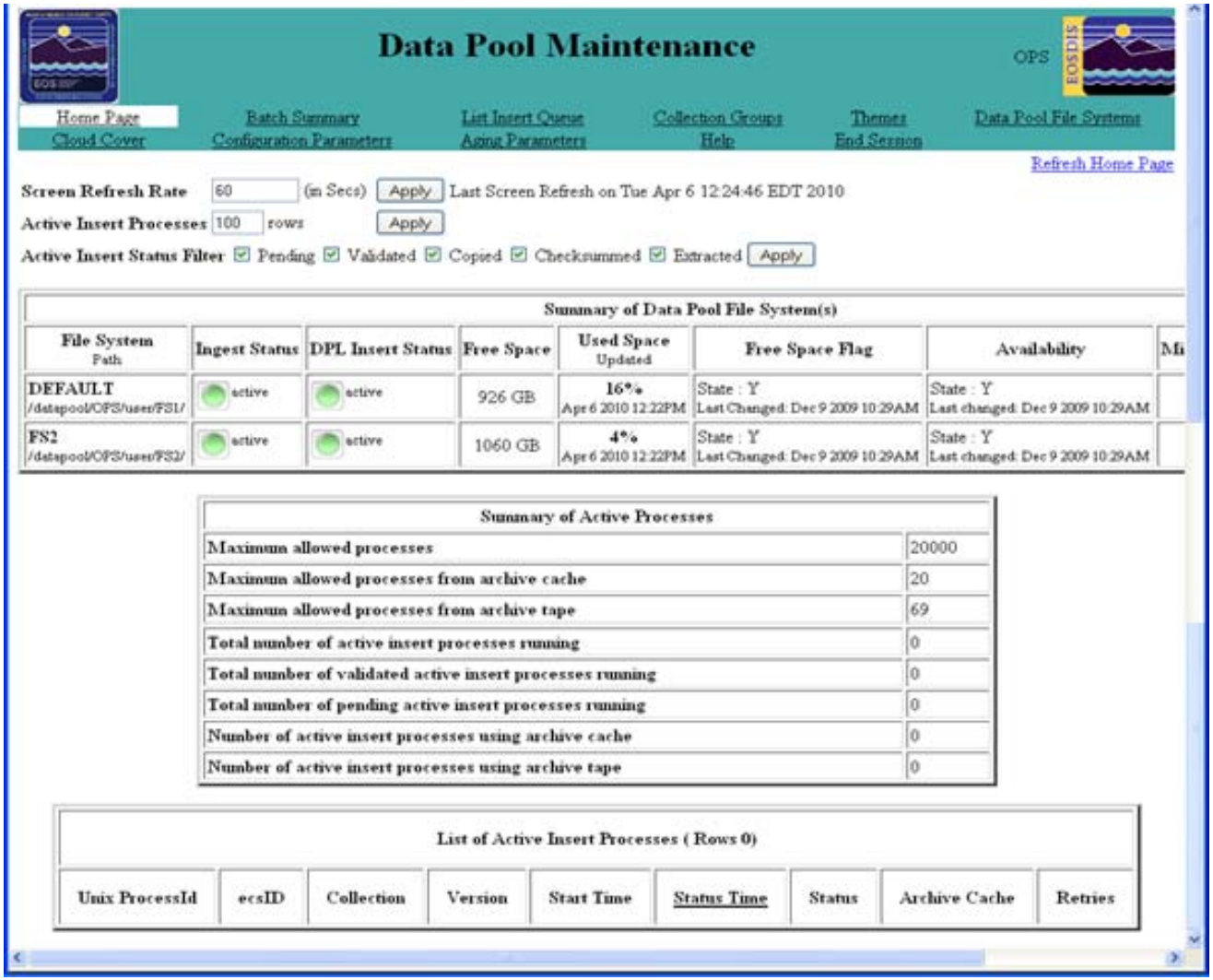
Data Pool Management (cont.)

- **Features of the Data Pool Maintenance GUI (cont.)**
  - **New operator GUI security standards require the following two levels of permissions for the DPM GUI:**
    - Full Capability
    - Limited Capability
  - **Full-capability operators have the ability to configure parameters and perform all other actions that can be accomplished with the DPM GUI.**
  - **Limited-capability operators are able to view a lot of information:**
    - However, on the limited-capability GUI some buttons and links have been disabled so it is not possible to perform certain actions or access certain pages.

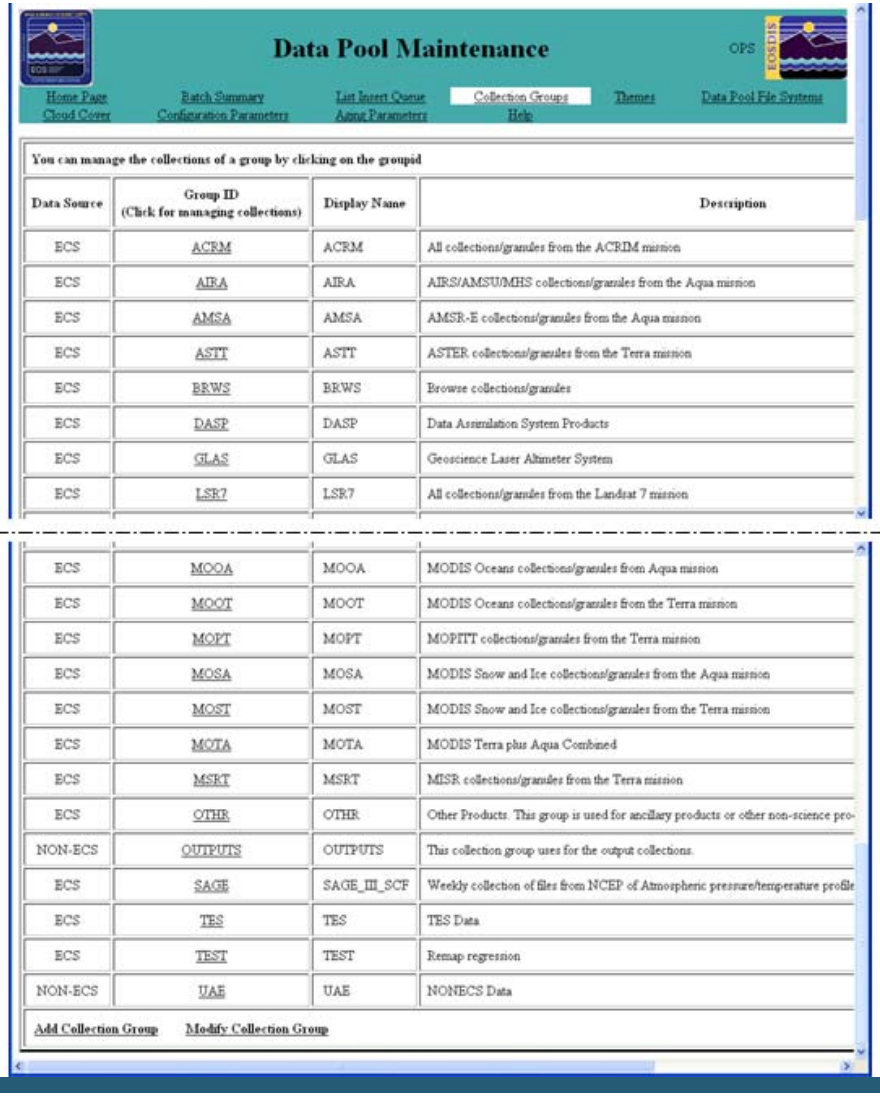
Data Pool Management (cont.)

- **Features of the Data Pool Maintenance GUI (cont.)**
  - **This lesson provides instruction in the full-capability version of the DPM GUI:**
    - However, the functions that are available to limited-capability Operators, as well as the functions that are not available to the limited-capability Operators are identified.

DPM GUI
Home Page



DPM GUI
Collection Groups



Data Pool Maintenance

OPS

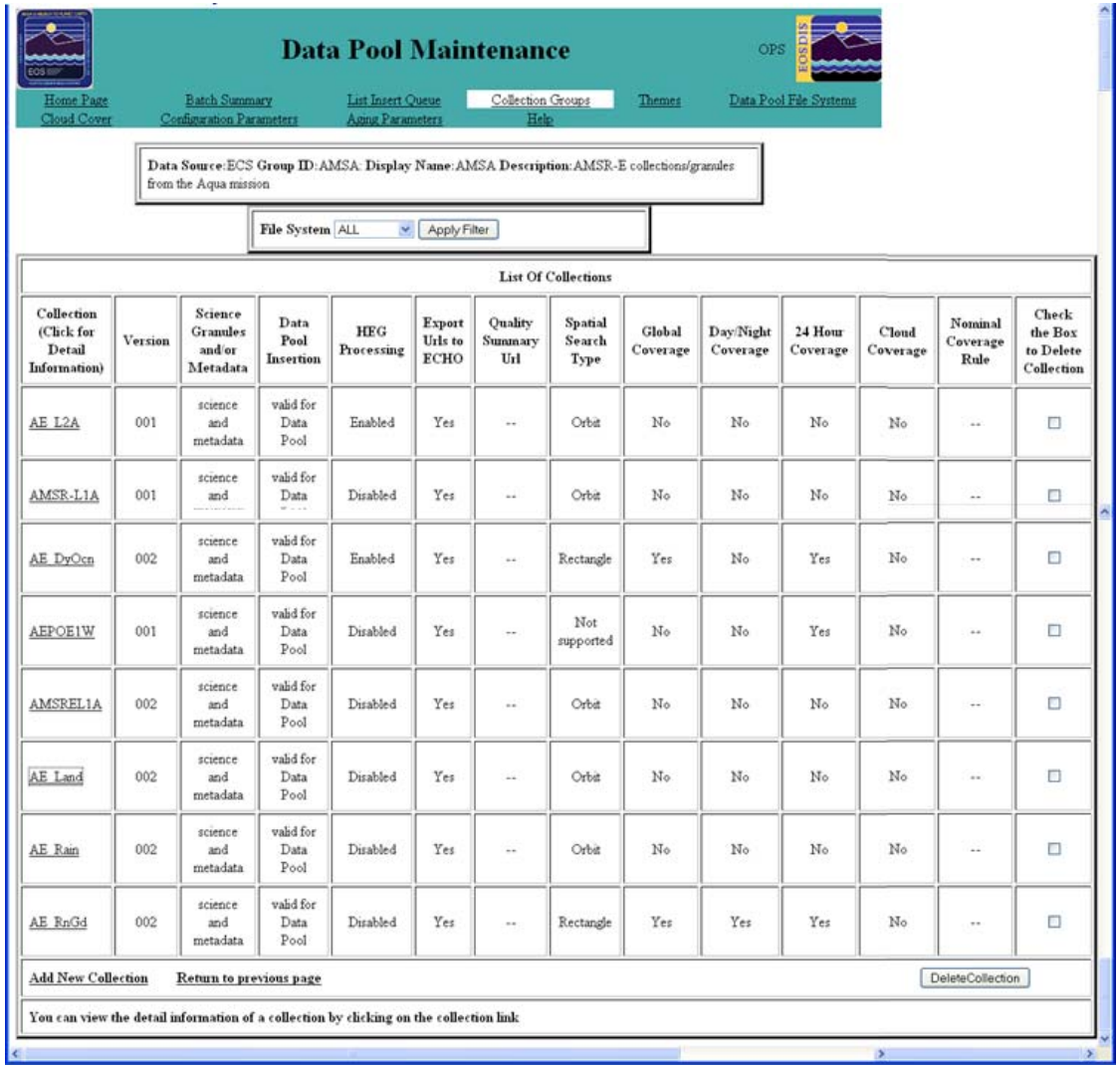
Home Page | Cloud Cover | Batch Summary | Configuration Parameters | List Insert Queue | Agent Parameters | Collection Groups | Help | Themes | Data Pool File Systems

You can manage the collections of a group by clicking on the groupid

Data Source	Group ID (Click for managing collections)	Display Name	Description
ECS	ACRM	ACRM	All collections/granules from the ACRIM mission
ECS	AIRA	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission
ECS	AMSA	AMSA	AMSR-E collections/granules from the Aqua mission
ECS	ASTT	ASTT	ASTER collections/granules from the Terra mission
ECS	BRWS	BRWS	Browse collections/granules
ECS	DASP	DASP	Data Assimilation System Products
ECS	GLAS	GLAS	Geoscience Laser Altimeter System
ECS	LSR7	LSR7	All collections/granules from the Landsat 7 mission
ECS	MOOA	MOOA	MODIS Oceans collections/granules from Aqua mission
ECS	MOOT	MOOT	MODIS Oceans collections/granules from the Terra mission
ECS	MOPT	MOPT	MOPITT collections/granules from the Terra mission
ECS	MOSA	MOSA	MODIS Snow and Ice collections/granules from the Aqua mission
ECS	MOST	MOST	MODIS Snow and Ice collections/granules from the Terra mission
ECS	MOTA	MOTA	MODIS Terra plus Aqua Combined
ECS	MSRT	MSRT	MISR collections/granules from the Terra mission
ECS	OTHR	OTHR	Other Products. This group is used for ancillary products or other non-science pro-
NON-ECS	OUTPUTS	OUTPUTS	This collection group uses for the output collections.
ECS	SAGE	SAGE_III_SCF	Weekly collection of files from NCEP of Atmospheric pressure/temperature profile
ECS	TES	TES	TES Data
ECS	TEST	TEST	Remap regression
NON-ECS	UAE	UAE	NONECS Data

Add Collection Group | Modify Collection Group

DPM GUI
Collection Groups: List of Collections (cont.)



Data Pool Maintenance

OPS

Home Page | Batch Summary | List Insert Queue | Collection Groups | Themes | Data Pool File Systems
Cloud Cover | Configuration Parameters | Aging Parameters | Help

Data Source:ECS Group ID:AMSA Display Name:AMSA Description:AMSR-E collections/granules from the Aqua mission

File System ALL Apply Filter

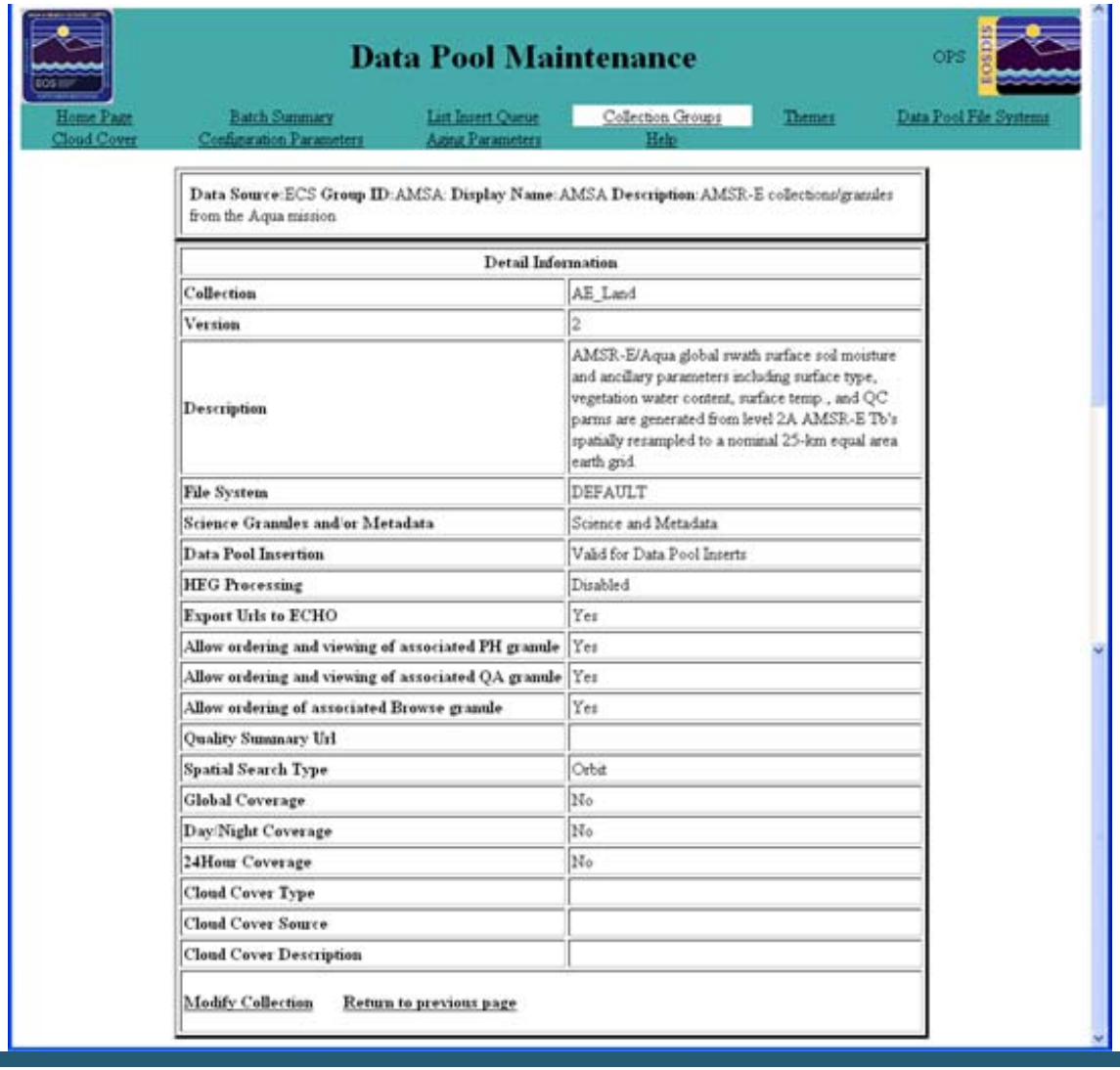
List Of Collections

Collection (Click for Detail Information)	Version	Science Granules and/or Metadata	Data Pool Insertion	HEG Processing	Export Urls to ECHO	Quality Summary Url	Spatial Search Type	Global Coverage	Day/Night Coverage	24 Hour Coverage	Cloud Coverage	Nominal Coverage Rule	Check the Box to Delete Collection
AE_L2A	001	science and metadata	valid for Data Pool	Enabled	Yes	--	Orbit	No	No	No	No	--	☐
AMSR-L1A	001	science and	valid for Data	Disabled	Yes	--	Orbit	No	No	No	No	--	☐
AE_DyOcn	002	science and metadata	valid for Data Pool	Enabled	Yes	--	Rectangle	Yes	No	Yes	No	--	☐
AEPOE1W	001	science and metadata	valid for Data Pool	Disabled	Yes	--	Not supported	No	No	Yes	No	--	☐
AMSREL1A	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	☐
AE_Land	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	☐
AE_Rain	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	☐
AE_RnGd	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Rectangle	Yes	Yes	Yes	No	--	☐

Add New Collection Return to previous page DeleteCollection

You can view the detail information of a collection by clicking on the collection link

DPM GUI
Collection Groups: Detail Info (cont.)



Data Pool Maintenance

OPS

Home Page | Batch Summary | List Insert Queue | Collection Groups | Themes | Data Pool File Systems
Cloud Cover | Configuration Parameters | Aging Parameters | Help

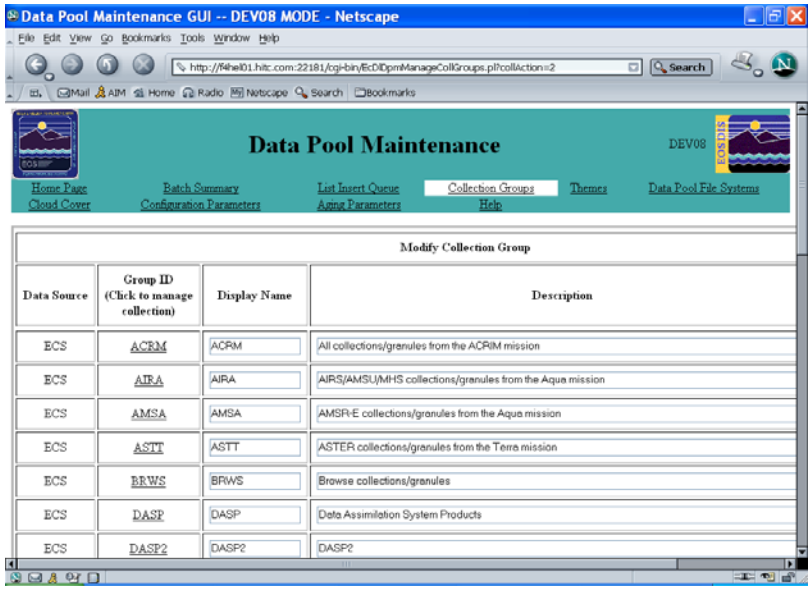
Data Source:ECS **Group ID**:AMSA **Display Name**:AMSA **Description**:AMSR-E collections/granules from the Aqua mission

Detail Information	
Collection	AE_Land
Version	2
Description	AMSR-E/Aqua global swath surface soil moisture and ancillary parameters including surface type, vegetation water content, surface temp., and QC parms are generated from level 2A AMSR-E Tb's spatially resampled to a nominal 25-km equal area earth grid.
File System	DEFAULT
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Inserts
HEG Processing	Disabled
Export Urls to ECHO	Yes
Allow ordering and viewing of associated PH granule	Yes
Allow ordering and viewing of associated QA granule	Yes
Allow ordering of associated Browse granule	Yes
Quality Summary Url	
Spatial Search Type	Orbit
Global Coverage	No
Day/Night Coverage	No
24Hour Coverage	No
Cloud Cover Type	
Cloud Cover Source	
Cloud Cover Description	

Modify Collection Return to previous page

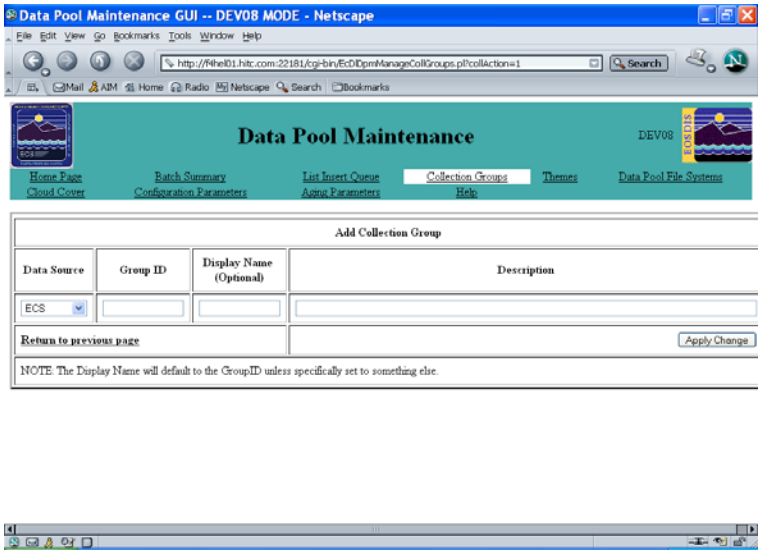
DPM GUI
Collection Groups (cont.)

- **Procedure: Modifying Collection Groups**
  - Select the DPM GUI **Collection** Groups link.
  - Select the **Modify Collection Group** link.
  - Make desired changes to the **Display Name** and **Description.**
  - Select checkbox at the end of the row.
  - Click the **Apply Changes** button.



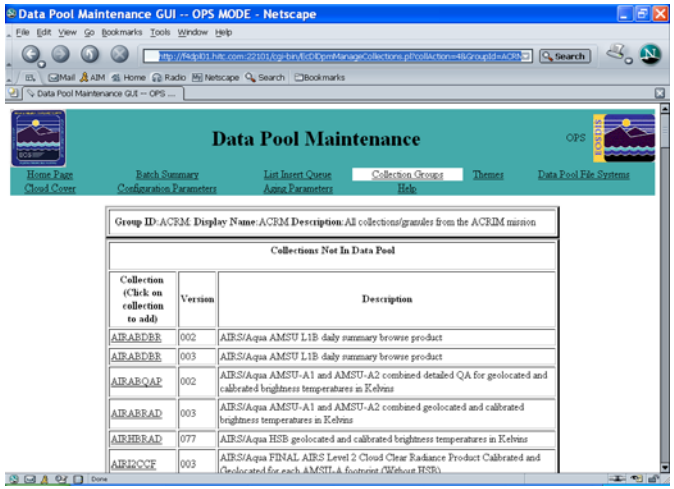
DPM GUI
Collection Groups (cont.)

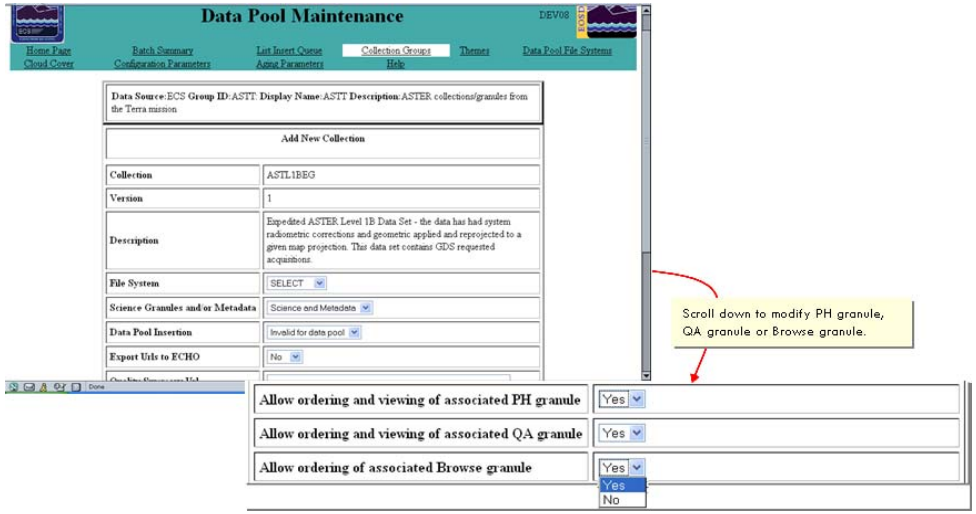
- **Procedure: Add a Collection Group**
  - Select the DPM GUI **Collection Groups** link.
  - Select the **Add Collection Group** link.
  - Enter **Display Source, Group ID, Display Name** and **Description.**
  - Click on the **Apply Change** button.
- **Note: Once entered, the Collection Group cannot be deleted.**

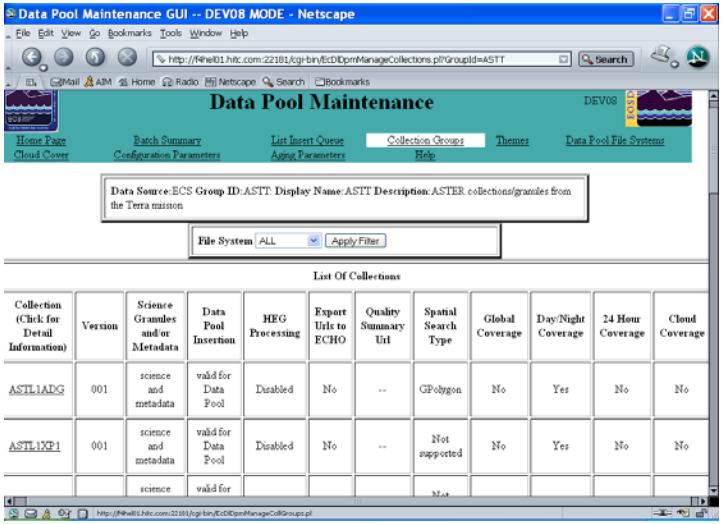
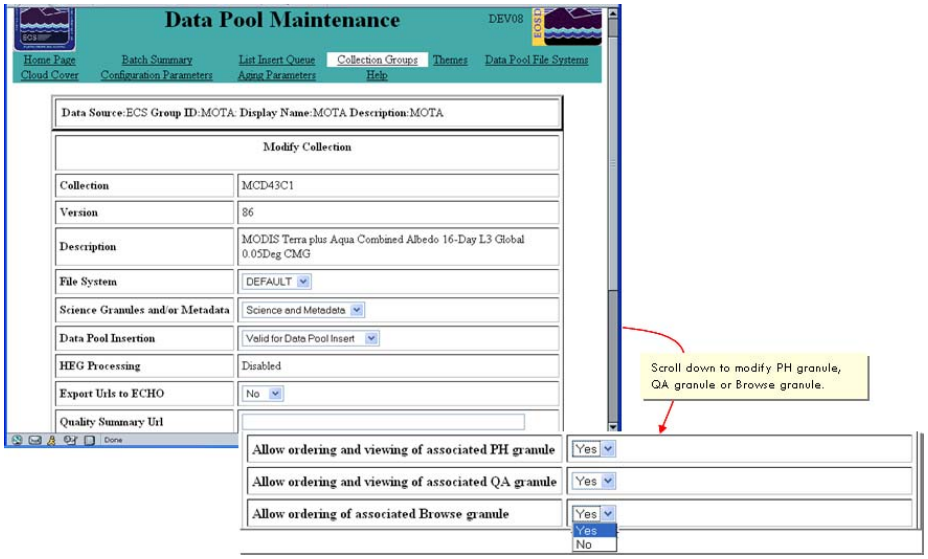


DPM GUI
Collection Groups (cont.)

- **Procedure: Add ECS Collections to a Collection Group**
  - Select the DPM GUI **Collection Groups** link.
  - Select the **Group ID** link.
  - Select the **Add New Collection** link.
  - From the **Collections Not in Data Pool** page, select collection to add.
  - Complete all **appropriate fields**.
  - Click on the **Apply Change** button.





DPM GUI
Collection Groups (cont.)

- **Procedure: Modify an ECS Collection Group**
  - Select the DPM GUI **Collection Groups, Group ID** link.
  - From the **List of Collections** page, select collection to modify.
  - From the **Detailed Information** page, select **Modify Collection** link.
  - From the **Modify Collection** page, complete desired fields.
  - Click the **Apply Change** button.