

625-EED-003, Rev. 02

EOSDIS Evolution and Development (EED) Contract

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

Revision 02

September 2013

Raytheon Company
Riverdale, Maryland

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September 2013

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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 8.2

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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.

423-CDRD-002 Statement of Work for EOSDIS Evolution and Development Contract
Contract Data Requirements Document for EED Tasks 01, 02 & 03

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. 02 Release 8.2 Operations Tools Manual for the EED Contract
611-EED-001, Rev. 02 Release 8.2 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. 02 Release 8.2 Segment/Design Specification for the EED Contract.
311-EED-001, Rev. 02 Release 8.2 INGEST (INS) Database Design and Schema Specifications for the EED Contract.
311-EED-002, Rev. 02 Release 8.2 Order Manager Database Design and Database Schema Specifications for the EED Contract.
311-EED-003, Rev. 02 Release 8.2 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EED Contract.
311-EED-005, Rev. 02 Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001, *Release 8.2 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 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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 02, *Release 8.2 Operations Tools Manual for the EED Contract*, and a copy of 611-EED-001 Revision 02, *Release 8.2 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.

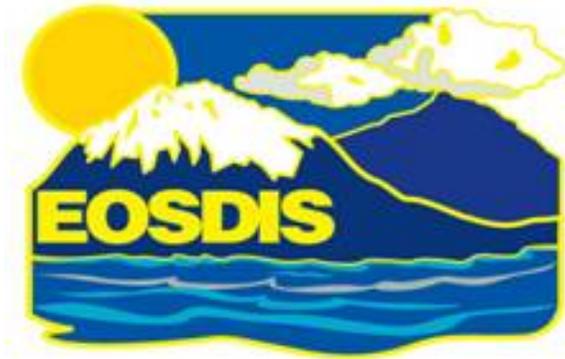
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Slide Presentation

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 2013

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



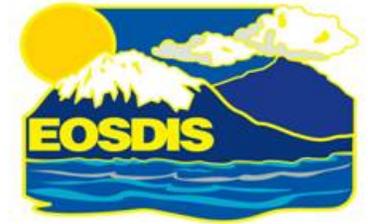
- **OVERALL:**
 - To develop proficiency in the procedures that apply to Ingest operations.
- **SPECIFIC:**
 - Describe the Ingest function, including a generalization of the Ingest responsibility in the system and the process overview.
 - Perform Ingest related procedural steps for:
 - logging into 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.)

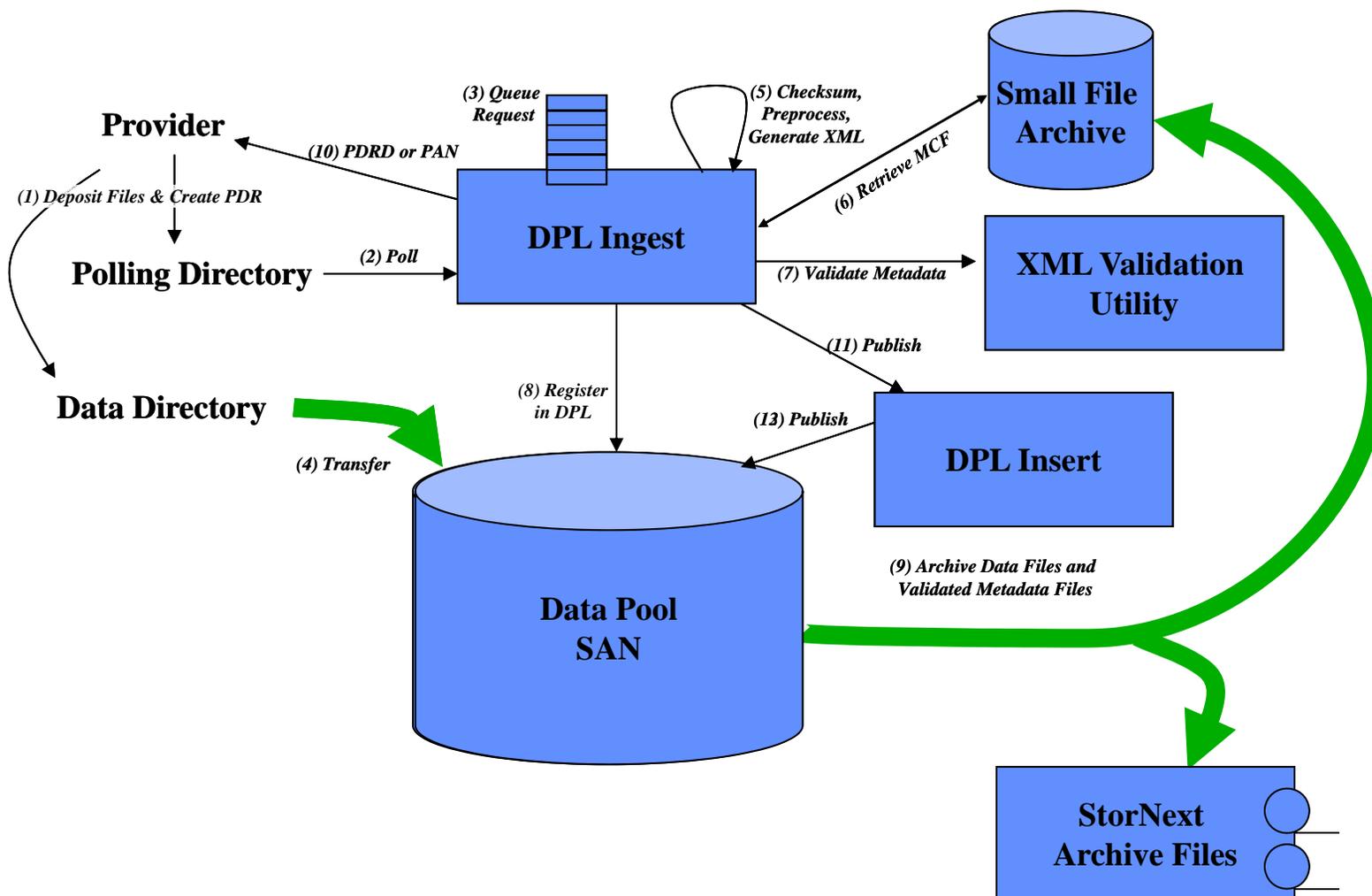


- **Data Pool Architectural Context (cont.)**

- **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 or SCP).**

DPL Ingest Subsystem

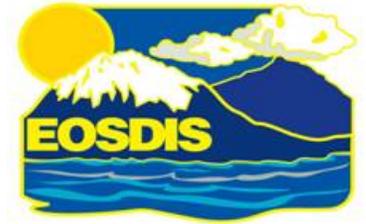
DPL Ingest Service



- **DPL Ingest Service:**
 - Provide ability for the SIPS providers to utilize the a 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 ESĐTs, 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.)**

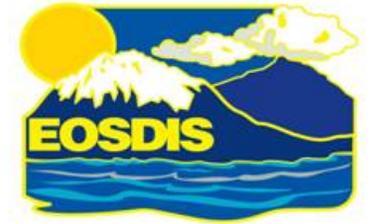
- Once all granules within the PDR are completed, the provider is notified of the outcome, which could be immediately via Product Delivery Discrepancy Report (PDRD) if PDR validation failed, or later via a short or long Product Acceptance Notification (PAN).
- If the ESDT is configured for public Data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

Data Pool Ingest web GUI



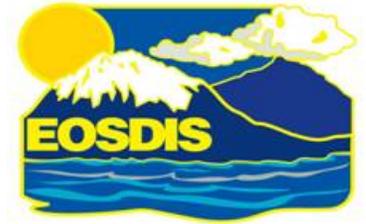
- **Data Pool Ingest web GUI**
 - **Provides capabilities:**
 - Monitor ingest requests and errors.
 - Respond to ingest requests for operator intervention and alerts.
 - Enter configuration information related to providers, polling locations, and the handling of data collections.

System Hosts Login



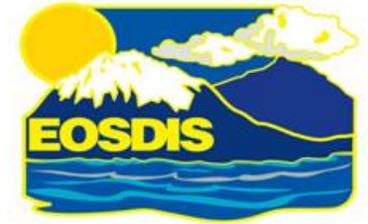
- **Logging in to system hosts is accomplished from a UNIX command line prompt.**
 - It is an initial set of steps that is performed when accomplishing many other Ingest tasks.
- **Procedure:**
 - Access the **command shell**.
 - **Set the DISPLAY** environmental variable.
 - **Log into the specified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

Data Pool Ingest Launching



- **Software applications associated with Data Pool Ingest:**
 - **EcDInProcessingService.**
 - **EcDInPollingService.**
 - **EcDInNotificationService.**
- **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.`

A screenshot of the "DATA POOL INGEST web GUI" login page. The page has a header with the title "DATA POOL INGEST web GUI" in blue text. Below the title is a banner image showing a satellite view of Earth. In the bottom right corner of the banner, there are logos for NASA and EOSDIS. The main content area contains a login form with a purple header that says "Login:" next to a key icon. Below this are two input fields: "User:" and "Password:". At the bottom of the form, there are two buttons: "Login" with a padlock icon and "Clear" with a trash can icon.

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.

A screenshot of the Data Pool Ingest web GUI home page in a Mozilla Firefox browser window. The page title is "DATA POOL INGEST web GUI". The left sidebar contains a navigation menu with links for Home, Monitoring, Interventions & Alerts, Configuration, Reports, and Help. The main content area displays "General System Statistics" with various data points such as "Total Volume Of Data Queued: 0.000 MB" and "Total Ingest Requests Queued: 0". Below this is a "DPL Ingest Status" section with "General Ingest Status" and "Email Service Status" both showing green "UP" indicators and "Suspend" buttons. A "Service Status" section shows "Notification Service Status", "Polling Service Status", and "Processing Service Status", all with green "UP" indicators. A yellow callout box with a warning icon states "There are 9 system alerts. You can view all system alerts at any time by displaying the System Alerts page." At the bottom, there is an "Auto Refresh" section with a dropdown menu currently set to "OFF". Several yellow callout boxes with red arrows point to specific elements: "You are logged in as <userid> - identifies active login name" points to the user information in the top left; "change password link" points to a link in the top left; "show my permissions link" points to a link in the top left; "reload page - Active link to refresh data/page" points to a refresh icon in the top left; "Provider Status - Active link to Monitoring, Provider Status page" points to a link in the top right; "System Alerts - Active link to Interventions & Alerts, Alerts page" points to the system alerts warning box; and "Auto Refresh options" points to the "Auto Refresh" dropdown menu. A separate callout box on the right side of the service status section states "Indicators are red, if down" and shows a legend with a green arrow pointing up for "UP" and a red arrow pointing down for "DOWN".

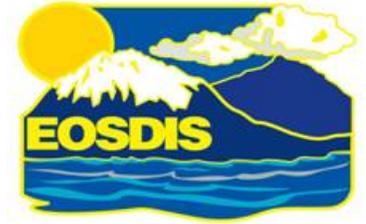
Data Pool Ingest web GUI Home Page (cont.)



- **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 Data 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 (EcDInNotificationService)** - If down, no notifications will be sent.
 - **Polling Service Status (EcDInPollingService)** - If down, PDRs will not arrive from any configured polling location.
 - **Processing Service Status (EcDInProcessingService)** - 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

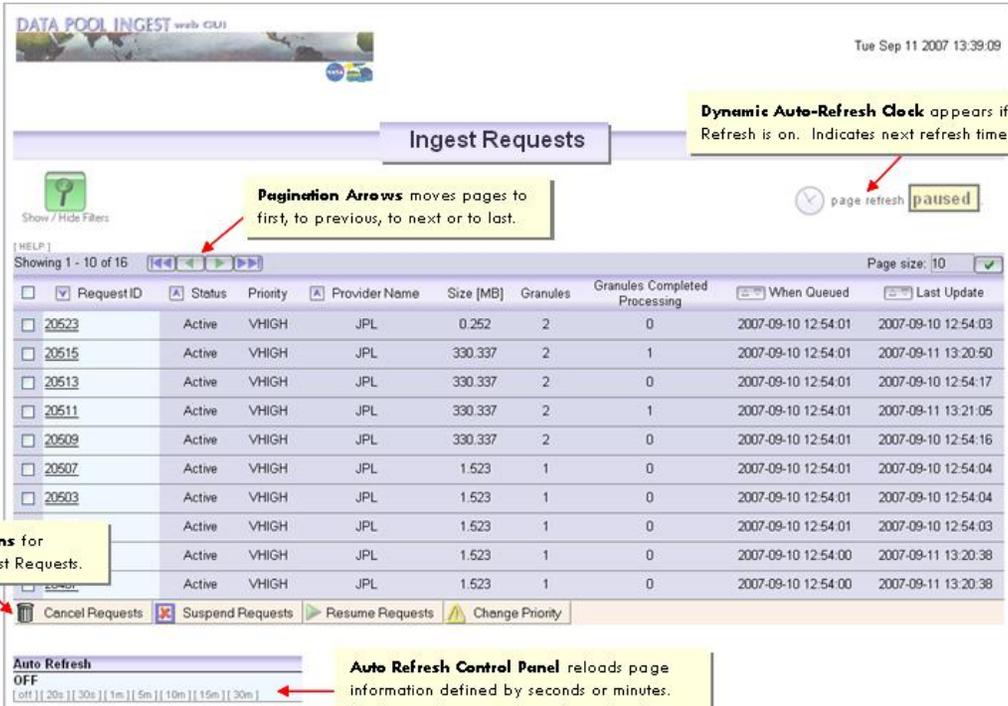


- **The Ingest Request Status screen is used to check the status of current active Ingest requests.**
- **The Operator may select any eligible request and perform one of several actions:**
 - **Cancel Requests:** This is an irreversible action, there is no way to ‘un-cancel’ a request.
 - **Suspend Requests:** 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



DATA POOL INGEST web GUI Tue Sep 11 2007 13:39:09

Ingest Requests

Dynamic Auto-Refresh Clock appears if Auto Refresh is on. Indicates next refresh time.

Pagination Arrows moves pages to first, to previous, to next or to last.

page refresh **paused**

[HELP] Showing 1 - 10 of 16 Page size: 10

<input type="checkbox"/>	RequestID	Status	Priority	Provider Name	Size [MB]	Granules	Granules Completed Processing	When Queued	Last Update
<input type="checkbox"/>	20523	Active	VHIGH	JPL	0.252	2	0	2007-09-10 12:54:01	2007-09-10 12:54:03
<input type="checkbox"/>	20515	Active	VHIGH	JPL	330.337	2	1	2007-09-10 12:54:01	2007-09-11 13:20:50
<input type="checkbox"/>	20513	Active	VHIGH	JPL	330.337	2	0	2007-09-10 12:54:01	2007-09-10 12:54:17
<input type="checkbox"/>	20511	Active	VHIGH	JPL	330.337	2	1	2007-09-10 12:54:01	2007-09-11 13:21:05
<input type="checkbox"/>	20509	Active	VHIGH	JPL	330.337	2	0	2007-09-10 12:54:01	2007-09-10 12:54:16
<input type="checkbox"/>	20507	Active	VHIGH	JPL	1.523	1	0	2007-09-10 12:54:01	2007-09-10 12:54:04
<input type="checkbox"/>	20503	Active	VHIGH	JPL	1.523	1	0	2007-09-10 12:54:01	2007-09-10 12:54:04
<input type="checkbox"/>		Active	VHIGH	JPL	1.523	1	0	2007-09-10 12:54:01	2007-09-10 12:54:03
<input type="checkbox"/>		Active	VHIGH	JPL	1.523	1	0	2007-09-10 12:54:00	2007-09-11 13:20:38
<input type="checkbox"/>		Active	VHIGH	JPL	1.523	1	0	2007-09-10 12:54:00	2007-09-11 13:20:38

Action Buttons for eligible Ingest Requests.
Cancel Requests Suspend Requests Resume Requests Change Priority

Auto Refresh OFF
[off] [20s] [30s] [1m] [5m] [10m] [15m] [30m]

Auto Refresh Control Panel reloads page information defined by seconds or minutes. Each screen has an independent refresh rate.

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.

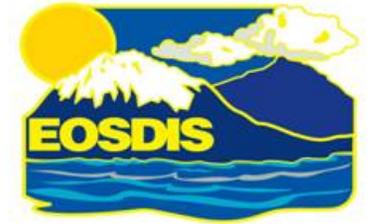
Monitoring Ingest Requests (cont.)



• 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.

A screenshot of the "Active Ingest Request List Filter Panel" in the DPL Ingest GUI. The panel has a light blue background and a title bar with a magnifying glass icon and the text "Show / Hide Filters [HELP]". Below the title bar, there are two tabs: "Criteria Based Filtering" (selected) and "Filter By Request ID". Under "Criteria Based Filtering", there are several sections:

- Data Providers:** A dropdown menu showing "MODAPS_TERRA_FPROC".
- Request Detail Criteria:** A dropdown menu showing "New".
- Request States:** A dropdown menu with "Validated" and "Active" options. "Validated" is currently selected.
- Target Archives:** A dropdown menu showing "amfs1", "snfs1", and "browfs".
- Date Range Criteria:** A dropdown menu showing "Last Updated".

Below these sections, there are two date range pickers labeled "FROM" and "TO". The "FROM" picker is set to month 10, day 25, yr 2006, hr 1, min 0. The "TO" picker is set to month 10, day 26, yr 2006, hr 23, min 59. At the bottom of the panel, there is a checkbox for "Save As Default Settings [HELP]", an "Apply Filter" button, and a "Load Default Settings" button.

Monitoring Ingest Requests (cont.)



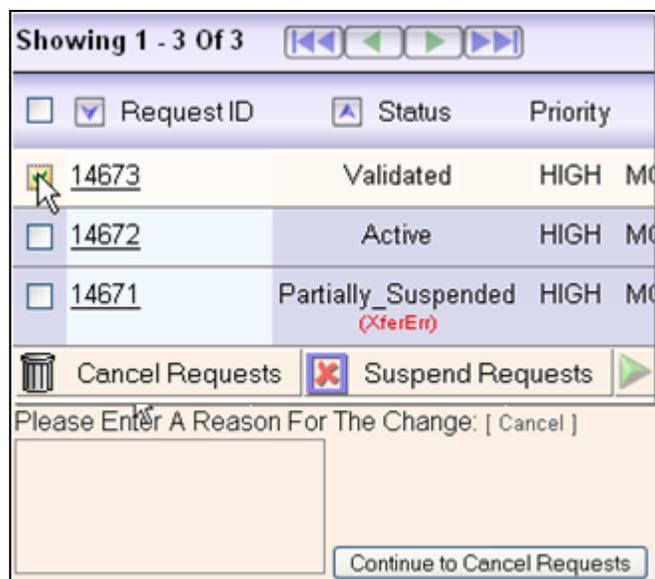
- **Procedure: Changing Request Status Filters**
 - **Criteria Based Filtering**
 - Allows filtering the attributes of various requests
 - If you want to filter a single granule ID select Filter By Request ID
 - **Filter by Data Provider**
 - **Filter by Request State criteria**
 - Selection to filter 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



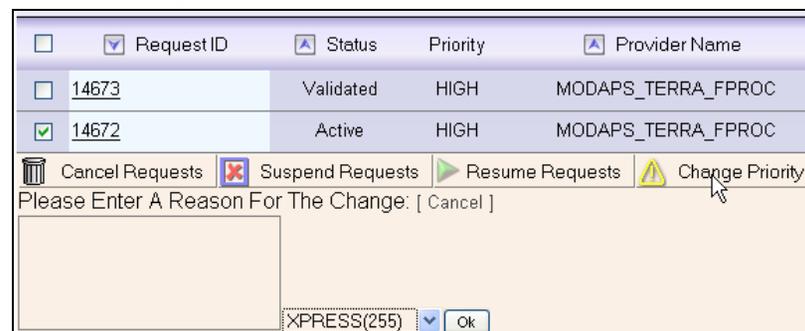
Request ID	Status	Priority
<input checked="" type="checkbox"/> 14673	Validated	HIGH
<input type="checkbox"/> 14672	Active	HIGH
<input type="checkbox"/> 14671	Partially_Suspended (XferErr)	HIGH

Buttons: Cancel Requests, Suspend Requests, Resume Requests

Please Enter A Reason For The Change: [Cancel]

Continue to Cancel Requests

▪ Change Priority



Request ID	Status	Priority	Provider Name
<input type="checkbox"/> 14673	Validated	HIGH	MODAPS_TERRA_FPROC
<input checked="" type="checkbox"/> 14672	Active	HIGH	MODAPS_TERRA_FPROC

Buttons: Cancel Requests, Suspend Requests, Resume Requests, Change Priority

Please Enter A Reason For The Change: [Cancel]

XPRESS(255) Ok

Monitoring Ingest Requests (cont.)



- Ingest Request Detail Page and Granule List

DATA POOL INGEST web GUI Tue Sep 11 2007 13:41:02

Ingest Request Detail

Request Info [Show / Hide]

Request ID: 20515 **Status:** Active **Priority:** VHIGH
Polling Location: JPL Local Polling **Mission:** **Size:** 330.337 MB
Data Provider: JPL

PDR Path and file name: /datapool/DEV09/user/FS1//pdrs/1000191/500174/Criteria_0260_1_1188918087.83048_RGEN.PDR

Last Update: 2007-09-11 13:20:50
When Queued: 2007-09-10 12:54:01
When Activated: 2007-09-10 12:54:07
When Completed: **Expiration Date/Time:**

Granule Statistics:

Total Granules	Granules Preprocessed	Granules Inserted	Granules Transferred	Granules Archived	No. Files
2	50%	50%	50%	50%	8

Status Change History

Status Changed to New	2007-09-07 14:46:23
Status Changed to Validated	2007-09-10 12:54:01
Status Changed to Active	2007-09-10 12:54:07

Request Notes

Added 2006-10-26 17:23:33 by **IngAdmin**
GranuleID: 1000000019387 Failed granule.

Added 2006-10-26 17:24:24 by **IngAdmin**
Failed granule after verifying that the metadata was corrupt and could not be processed after retrying the granule.

[Add annotation...] [Cancel]

Annotation text:
After failing the granule, the metadata was corrected and the granule will be reingested through a later request!

[Add This Annotation]

[Add annotation...]

Granule List

File Detail	Seq Number	Ingest Gran. ID	Data Type	Version	Status	Granule Size (MB)	No. Files	Last Status Change
[show/hide]	4	1000000000307	MOC29P10	06	Successful	6.144	2	2006-10-27 11:37:52
[show/hide]	3	1000000000306	MOC29P10	06	Canceling	6.140	2	2006-10-27 11:42:17
[show/hide]	1	1000000000304	MOC29P10	06	XXXErr Error executing the following copy command: /usr/local/ops/custom/bin/DPL/Exec/DPLCopyExec /home/mtshand/OPS/Script/TEMP/OPS/Criteria_1420_MOC_11186/8307011622_RGEN.hdf /datapool/OPS/user/FS1/temp/ingest/14679/1000000000304/406_3_Failed by Operator	6.140	2	2006-10-27 11:42:02
[show/hide]	2	1000000000305	MOC29P10	06	Resuming	6.144	2	2006-10-27 11:42:39

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 from 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

DATA POOL INGEST web GUI Tue Sep 11 2007 13:45:48

Historical Ingest Requests

 Show / Hide Filters

[HELP]
Showing 1 - 20 of 707 Page size: 20

RequestId	Status	Priority	Provider Name	Size	No. Granules (no. Successful)	Ingest Method	When Queued	When Proc. Started	When Proc. Completed
20427	Cancelled <small>(Preprocessing)</small>	HIGH	1@2.3	111.125	2(0)	DPL	2007-09-01 16:30:26	2007-09-01 16:30:29	
18573	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:56:58		2007-08-31 00:56:58
18563	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:56:57		2007-08-31 00:56:59
18565	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:57:07		2007-08-31 00:57:15
18575	Failed	HIGH	1@2.3	0.006	1(0)	DPL	2007-08-31 00:57:08		2007-08-31 00:57:15
18567	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:56:58		2007-08-31 00:57:15
18569	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:57:07		2007-08-31 00:57:15
18571	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:57:08		2007-08-31 00:57:22
18555	Failed	HIGH	1@2.3	-0.000	1(0)	DPL	2007-08-31 00:57:08		2007-08-31 00:57:22

Historical Request Related Configuration

Parameter Name	Parameter Description	Parameter Value
MONTHS_TO_KEEP_HIST_STATS_ALERTS	The retention time in months for keeping historic information for requests, alerts and throughput statistics	2

Apply Changes Cancel Changes

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

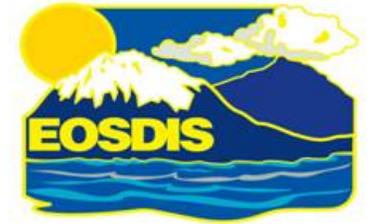
Seq. Number	Ingest Gran. ID	ECS Gran. ID	DPL Gran. ID	Data Type	Version	Status	Granule Size (MB)	No. Files	Proc. Start	Proc. End	Total Proc. Time	Time To Checksum	Retry Count
1	5000000021393			AE_RnGd	1	InitErr	0.085	0					

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.

DATA POOL INGEST web GUI Tue Sep 11 2007 13:50:05

Provider Status

[HELP]

<input type="checkbox"/>	Provider	Status	Polling Locations	Requests Queued	Requests In Process	Granules Queued	Granules In Process
<input type="checkbox"/>	0270	active	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	0310	active	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	1623	active	1 of 1 active	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	1Lisa_Amsar	suspended by operator	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	1Lisa_Modaps_Aqua	suspended by operator	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	1Lisa_Modaps_Terra	suspended by operator	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	4010 Connection Prob	suspended by operator	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	ACRIM	suspended by operator	1 of 1 suspended				
<input type="checkbox"/>	AMSR_E_SIPS	active	1 of 2 suspended				
<input type="checkbox"/>	ASTER_GDS	suspended by operator	1 of 2 disabled				
<input type="checkbox"/>	ASTER_OSF	suspended by operator	1 of 1 suspended				
<input type="checkbox"/>	DAP	suspended by operator	1 of 1 suspended				
<input type="checkbox"/>	DDIST	suspended by operator	1 of 1 suspended				
<input type="checkbox"/>	EDOS	suspended by operator	No Polling Locations				
<input type="checkbox"/>	FileProvider	suspended by operator	No Polling Locations	0	0	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	ICESAT	suspended by operator	1 of 1 suspended	0	0	0 (0.000 MB)	0 (0.000 MB)
TOTALS:				0	9	5 (21.529 MB)	9 (659.087 MB)

Status Indicators

- active: At least one active polling location
- suspended by operator: Operator manually suspended polling location via GUI.
- suspended by server: Server automatically suspended polling location.

Monitoring Provider Status (cont.)



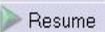
- **Procedure: (cont.)**
 - Click on any **Provider ID** to display **Provider Status Detail** page.

DATA POOL INGEST web GUI Tue Sep 11 2007 13:52:47

Provider Status Detail

General Status

Provider: NSIDC_DAAC

General Status:  suspended by operator 

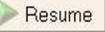
Requests Queued: 0 (0.000 MB)
Requests In Process: 0 (0.000 MB)

Configured Notification Types

Email: Yes FTP: No SCP: No

Polling Locations

<input type="checkbox"/>	Status	Source Polling Path	Host Type	Host Name	Host Status	Address
<input type="checkbox"/>	 suspended by operator	/net/origin/devdata1/DEV09/INGEST/pollNSIDC	local	LOCAL	 active	LOCAL

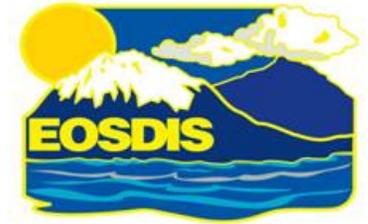
General Status:  active  Suspend

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

DATA POOL INGEST web GUI Tue Sep 11 2007 13:54:34

File System Status

[HELP]

Data Pool File Systems

<input type="checkbox"/>	Name Path	Status	Free Space	Used Space Updated	Cache Used Alert Threshold	Queued Granules Volume	Granules Processing Volume
<input type="checkbox"/>	DEFAULT /datapool/DEV00/user/FS1/	active	175GB	52% 2007-09-11 13:49:20.666	92%	5 21,529 MB	9 659,087 MB
<input type="checkbox"/>	FS2 /datapool/DEV00/user/FS2/	active	232GB	36% 2007-09-11 13:49:20.693	92%	0 0.000 MB	0 0.000 MB

Suspend Resume

Archive File Systems

<input type="checkbox"/>	Name Path	Status	Free Space	Used Space Updated	Cache Used Alert Threshold	Cache Used Suspend Threshold	Queued Granules (Min-Max) Volume (Min-Max)	Granules Processing (Min-Max) Volume (Min-Max)
<input type="checkbox"/>	ARCHIVE5 /stomex/browsf/	active	203GB	18% 2007-09-11 13:49:20.666	95%	100%	0 - 0 0.000 - 0.000MB	0 - 0 0.000 - 0.000MB
<input type="checkbox"/>	ARCHIVE8 /stomex/amts1/	active	62GB	74% 2007-09-11 13:49:20.663	95%	100%	0 - 0 0.000 - 0.000MB	0 - 0 0.000 - 0.000MB
<input type="checkbox"/>	Archive1 /stomex/mnts1/	active	60GB	75% 2007-09-11 13:49:20.656	80%	99%	5 - 5 21,529 - 21,529MB	9 - 9 659,087 - 659,087MB
<input type="checkbox"/>	XMLArchive /stomex/smallfiles/	active	231GB	9% 2007-09-11 13:49:20.666	95%	100%	0 - 0 0.000 - 0.000MB	0 - 0 0.000 - 0.000MB

Suspend Resume

Auto Refresh
OFF
[off] [1m] [5m] [10m] [15m] [30m]

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 and SCP 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 SCP and FTP 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.

HOST IDENTIFICATION:
Hostname, IP Address or
Canonical Name, Port

Host ID	Provider Name	Polling Status	Processing Status	Notification Status
184B1 84B101	AMSR	suspended by owner	not applicable	not applicable
	chis	not applicable	not applicable	active
	EMOS	suspended by owner	active	not applicable
	EMOS2	suspended by owner	not applicable	not applicable
	ICESAT	not applicable	active	not applicable
184B1 84B101	MODAPS_COMBINE	suspended by owner	not applicable	active
	EDOS	active	not applicable	suspended by owner
184B1 84B101	EDOS-ANC	not applicable	not applicable	active
	UNDEFHOST_ECSB4KExport_3429 84B101	Provider Name	Polling Status	Processing Status
UNDEFHOST_EBOS_184B1 84B101.kit.com	Provider Name	Polling Status	Processing Status	Notification Status
	EDOS	not applicable	active	not applicable
184B1 84B101	Provider Name	Polling Status	Processing Status	Notification Status
	Provider_scp	active	not applicable	not applicable
Local Host Transfers	AMSR	not applicable	active	
	AMSR_E_SIFS	active	active	
	ART_Provider_SIFS	not applicable	active	
	ASTER_GOS	active	active	
	img_110	active	not applicable	
	SAPM	active	active	
	TES	active	not applicable	
	TOMR Provider	active	not applicable	

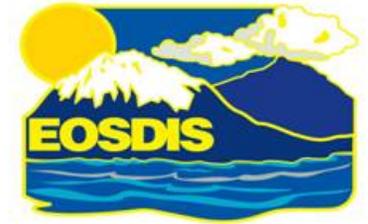
Field Name	Description
Host Identification	Within each configured host status section, display name assigned to the host on which the polling location is found. (Possible Status: active or suspended by Operator).
Status by Provider:	<ul style="list-style-type: none"> • Provider Name: Name of a provider 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



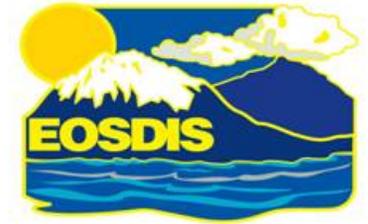
- **Non-host Services** - services that run on the same host as the Ingest processing service. Operator cannot suspend or resume these services.
- **The status columns show a green (active or up) or red (inactive or down) icon.**
 - **XML Validation Utility (XVU)** - service that validates incoming granule 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 from ODL format to XML format.
 - **Data Pool Insert Utility (DPIU)** - registers granule metadata into the Inventory database.

Monitoring ECS Service Status (cont.)



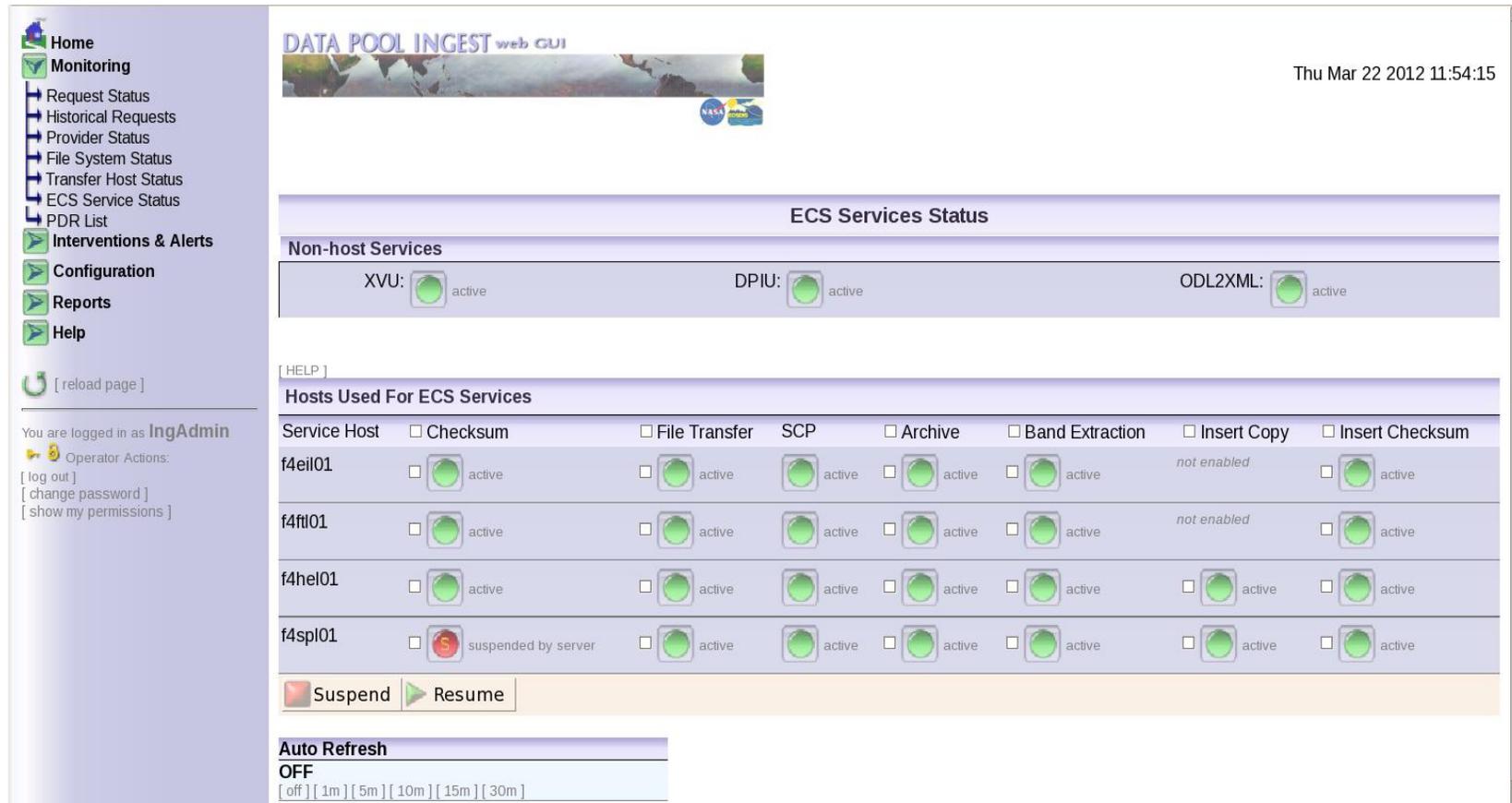
- **Host Used For ECS Services displays services tied to a specific host. Each of these services can suspend or resume on that particular host:**
 - Checksum
 - File Transfer
 - Archive
 - Band Extraction
 - Insert Copy
 - Insert Checksum
- **ECS Services can be configured to run on any number of hosts.**
- **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:**

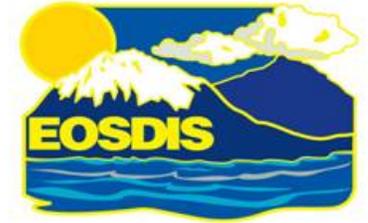
- Select the DPL Ingest GUI **Monitoring, ECS Service Status** link.



The screenshot displays the 'DATA POOL INGEST web GUI' interface. The left sidebar contains navigation links: Home, Monitoring (selected), Request Status, Historical Requests, Provider Status, File System Status, Transfer Host Status, ECS Service Status, PDR List, Interventions & Alerts, Configuration, Reports, and Help. Below the sidebar, it shows the user is logged in as 'IngAdmin' and provides operator actions like 'log out', 'change password', and 'show my permissions'. The main content area is titled 'ECS Services Status' and shows 'Non-host Services' with 'XVU', 'DPIU', and 'ODL2XML' all active. Below this is a table of 'Hosts Used For ECS Services' with columns for Service Host, Checksum, File Transfer, SCP, Archive, Band Extraction, Insert Copy, and Insert Checksum. The table lists four hosts: f4eil01, f4ftl01, f4hel01, and f4spl01. The f4spl01 host is marked as 'suspended by server'. At the bottom, there are 'Suspend' and 'Resume' buttons and an 'Auto Refresh' section set to 'OFF' with options for 1m, 5m, 10m, 15m, and 30m intervals. The top right corner shows the date and time: 'Thu Mar 22 2012 11:54:15'.

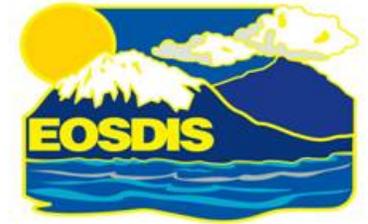
Service Host	Checksum	File Transfer	SCP	Archive	Band Extraction	Insert Copy	Insert Checksum
f4eil01	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	not enabled	<input type="checkbox"/> active
f4ftl01	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	not enabled	<input type="checkbox"/> active
f4hel01	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active
f4spl01	<input type="checkbox"/> suspended by server	<input type="checkbox"/> active					

Monitoring PDR Lists



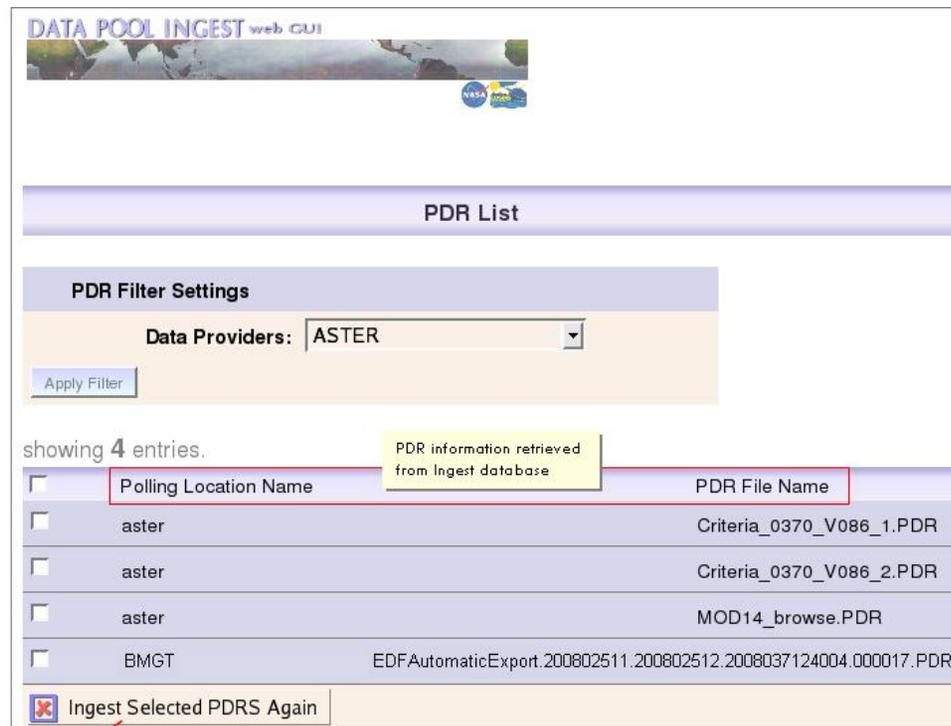
- **The PDR List page displays information retrieved from the Ingest database, listed by Polling Location Name and PDR File Name.**
 - **Once a provider removes the PDR for the provider polling server, the PDR list will be updated to reflect this change.**
 - **Selecting a PDR from the PDR List allows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



DATA POOL INGEST web GUI

PDR List

PDR Filter Settings

Data Providers: ASTER

Apply Filter

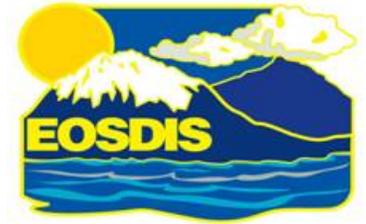
showing 4 entries.

<input type="checkbox"/>	Polling Location Name	PDR File Name
<input type="checkbox"/>	aster	Criteria_0370_V086_1.PDR
<input type="checkbox"/>	aster	Criteria_0370_V086_2.PDR
<input type="checkbox"/>	aster	MOD14_browse.PDR
<input type="checkbox"/>	BMGT	EDFAutomaticExport.200802511.200802512.2008037124004.000017.PDR

Ingest Selected PDRS Again

Click to re-ingest PDR information
(corresponding to checked PDRs).

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.

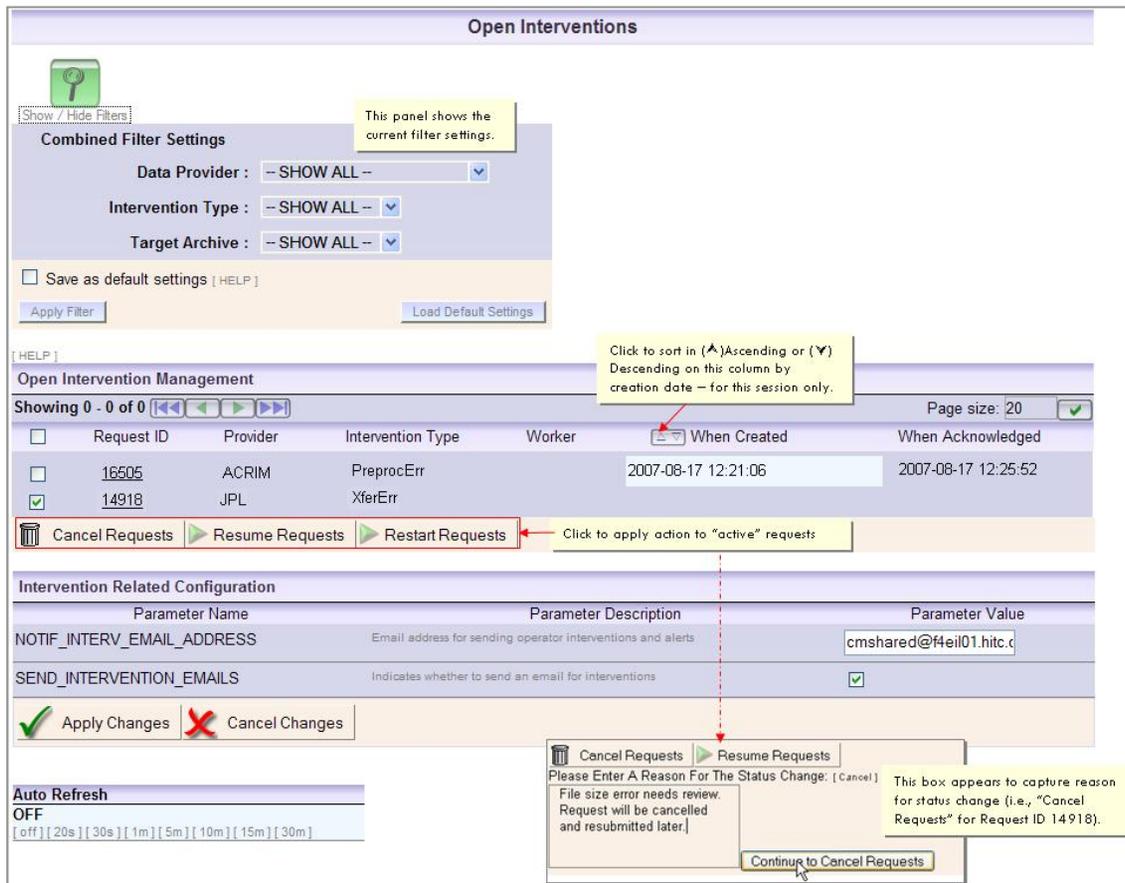
Interventions & Alerts

Open Interventions



- **Procedure**

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



The screenshot shows the 'Open Interventions' web interface. At the top, there is a search icon and a 'Show / Hide Filters' button. Below this is the 'Combined Filter Settings' section with dropdown menus for 'Data Provider', 'Intervention Type', and 'Target Archive', all set to '- SHOW ALL -'. There are buttons for 'Apply Filter' and 'Load Default Settings'. A note says 'This panel shows the current filter settings.' Below the filters is a 'Save as default settings' checkbox and a '[HELP]' link.

The main section is 'Open Intervention Management', showing 'Showing 0 - 0 of 0' items. It includes a table with columns: Request ID, Provider, Intervention Type, Worker, When Created, and When Acknowledged. The table contains two rows: one for Request ID 16505 (PreprocErr) and one for Request ID 14918 (XferErr). Below the table are buttons for 'Cancel Requests', 'Resume Requests', and 'Restart Requests'. A note says 'Click to apply action to "active" requests'. There is also a 'Page size: 20' dropdown.

Below the table is the 'Intervention Related Configuration' section with a table of parameters:

Parameter Name	Parameter Description	Parameter Value
NOTIF_INTERV_EMAIL_ADDRESS	Email address for sending operator interventions and alerts	cmshared@4eil01.hitc.c
SEND_INTERVENTION_EMAILS	Indicates whether to send an email for interventions	<input checked="" type="checkbox"/>

Below this table are 'Apply Changes' and 'Cancel Changes' buttons.

At the bottom left is the 'Auto Refresh' section, currently set to 'OFF' with a list of refresh intervals: [off], [20s], [30s], [1m], [5m], [10m], [15m], [30m].

At the bottom right, a modal dialog is open for 'Cancel Requests' with the text: 'Please Enter A Reason For The Status Change: [Cancel] File size error needs review. Request will be cancelled and resubmitted later.' A note says 'This box appears to capture reason for status change (i.e., "Cancel Requests" for Request ID 14918)'. There is a 'Continue to Cancel Requests' button.

Interventions & Alerts

Open Interventions (cont.)

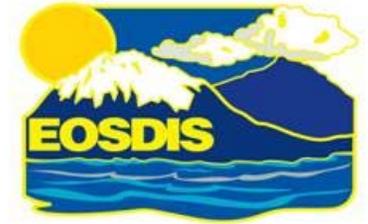


- **Open Interventions Management Field Descriptions**

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.

Intervention Related Configuration		
Parameter Name	Parameter Description	Parameter Value
NOTIF_INTERV_EMAIL_ADDRESS	Email address for sending operator interventions and alerts	<input type="text" value="cmops_edf@yahoo.com"/>
SEND_INTERVENTION_EMAILS	Indicates whether to send an email for interventions	<input checked="" type="checkbox"/>

Apply Changes Cancel Changes

- **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**

Open Intervention Detail

Intervention Info [Show / Hide]

RequestID: 14921 [view details] Status: Suspended Priority: NORMAL
 Provider: JPL Size: 24.586 MB No. Granules: 4 (0% complete)
 Intervention Type: MULTIPLE
 Worked By: James Pino [ok] Update Worker

Intervention Creation Date/Time: 2006-10-30 11:53:51
Intervention Acknowledgement Date/Time: 2006-10-30 11:54:58
When Queued: 2006-10-30 11:53:42
When Processing Started: 2006-10-30 11:53:44

Operator Notes

Added 2006-10-30 11:56:05 by **IngAdmin**
 Multiple errors encountered during request processing. Assigned to James Pino for analysis. Granules will be cancelled and resubmitted pending approval by supervisor.

Added 2006-10-30 12:06:20 by **IngAdmin**
 It has been decided that the granules cannot be processed and will be failed instead of cancelled.

[Add annotation...] link to display a time stamped (with OperatorID) annotation textbox for Notes.

Request Notes [help]
 There are no Request Notes for this request.

Granule action buttons: [Retry Selected Granules] [Retry From START Selected Granules] [Fail Selected Granules] [Cancel Selected Granules]

Granule List Showing 1 - 4 Of 4

File Detail	Seq. Number	Ingest Gran. ID	Data Type	Version	Status	Granule Size (MB)	No. Files	Processing Start	Processing End
[showhide]	1	15000000008368	MOD29P1D	86	Suspended (PreprcErr)	6.148	2	2009-02-03 17:04:38	2009-02-03 17:04:45
Error executing the following copy command: /usr/ecs/OPS/CUSTOM/bin/DPLcDcCopyExec /home/cmshare/FDRS/scripts/TEMP/OPS/Criteria_1420_MOD_1_1162227188.55036.RGEN.hdf.met /datapool/OPS/user/FS1/temp/ingest/14921/15000000008368/4036.3									
[showhide]	3	15000000008390	MOD29P1D	86	Successful	6.148	2		
[showhide]	4	15000000008391	MOD29P1D	86	Successful	6.144	2		
[showhide]	2	15000000008369	MOD29P1D	86	PreprcErr	6.144	2	2009-02-03 17:12:46	
Metadata validation failed with error: Metadata validation failed with reason: Failure reason: Error obtaining INVENTORYMETADATA from the descriptor, Failed by Operator									

[Show / Hide] link to display or collapses the Intervention Info section of the details page.

[view details] link to display the Ingest Request Detail page.

[showhide] link to display or hide details of granules that have not reached terminal state for action.

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

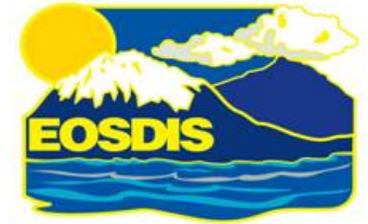
Open Interventions (cont.)



- **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

DATA POOL INGEST web GUI Thu Feb 5 2009 13:21:56

Alerts

[Show / Hide Filters](#)

Combined Filter Settings

Alert Type: -- SHOW ALL --

Resource Type: -- SHOW ALL --

Save as default settings [HELP]

[Apply Filter](#) [Load Default Settings](#)

This panel shows the current filter settings.

Alert Management

<input type="checkbox"/>	Alert Details	Alert Description	Alert Type	Resource	Resource Type	Server Name	Creation Time
<input type="checkbox"/>	[show/hide]	Failure to connect with an ECS service	SRVC_CANNOT_CONNECT	HT001	FILE_TRANSFER	Processing	2007-01-30 16:21:54

[Close Alerts](#)

Clears selected Alert.

Alert Related Configuration

Parameter Name	Parameter Description	Parameter Value
ALERT_EMAIL_ADDRESS	Email address to which alert emails will be sent	cmshared@Heil01.hitc.d
SEND_ALERT_EMAILS	Indicates whether sending alert emails is active	<input checked="" type="checkbox"/>

[Apply Changes](#) [Reset](#)

Auto Refresh

OFF

[off](#) [20s](#) [30s](#) [1m](#) [5m](#) [10m](#) [15m](#) [30m](#)

[Show / Hide](#)

Alert Details	Alert Description	Alert Type	Resource	Resource Type	Creation Time
<input type="checkbox"/>	The error response indicates that the file system is down	DPL_FS_DOWN	FS3	DPL_FILE_SYSTEM	2005-10-27 09:44:21

Symptom : Error DPL file system: /datapool/DEV01/user/FS3/ is down.

Impact :

- Data Providers affected : None
- Number of PDRs : 0
- Number of granules : 0
- Total amount of data queued : 0.000 MB
- Total amount of data processing : 0.000 MB

If Resource Type is an archive or file system, link displays/toggles additional details related by the alert condition.

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 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

A screenshot of a web application window titled "Alert Details". The window displays a table with columns: Alert Description, Alert Type, Resource, Resource Type, and Creation Time. A single row is visible with the following data:

Alert Description	Alert Type	Resource	Resource Type	Creation Time
The error response indicates that the file system is down Symptom : Error DPL file system: /datapool/DEV01/user/FS3/ is down. Impact : Data Providers affected : None Number of PDRs : 0 Number of granules : 0 Total amount of data queued : 0.000 MB Total amount of data processing : 0.000 MB	DPL_FS_DOWN	FS3	DPL_FILE_SYSTEM	2006-10-27 08:44:21

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



Thu Feb 1 2007 13:52:43

Provider Configuration					
<input type="checkbox"/>	Provider	Checksum Mandatory	% Files To Checksum	Default Priority	Notification Method
<input type="checkbox"/>	AMSR_E_SIPS	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/>	ASTER_GDS	<input checked="" type="checkbox"/>	100%	VHIGH	EMAIL
<input type="checkbox"/>	ASTER_OSF	<input type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/>	DDIST	<input type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/>	ECSBulkExport	<input type="checkbox"/>	0%	VHIGH	EMAIL
<input type="checkbox"/>	EDOS	<input checked="" type="checkbox"/>	100%	VHIGH	EMAIL
<input type="checkbox"/>	ICESAT	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/>	JPL	<input type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/>	MODAPS_AQUA_FPROC	<input checked="" type="checkbox"/>	100%	NORMAL	EMAILFTP
<input type="checkbox"/>	MODAPS_COMBINE_FPROC	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/>	MODAPS_TERRA_FPROC	<input checked="" type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/>	NSIDC_DAAC	<input type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/>	S4P00	<input type="checkbox"/>	100%	NORMAL	EMAIL

Remove Selected Providers Add A Provider...

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 <i>must</i> 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, or SCP with various cipher types)
Notification Method	Required	Method for providing notifications to the provider (email, SCP, FTP, or combination of SCP/FTP 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	User Id for getting write permissions on the provider's notification directory
Write Info: Password	Required if FTP or SCP is the notification method	Checkbox displays a password and verify password field that are used to provide access to the provider's notification directory
Path	Required if FTP or SCP is the notification method	Directory where notifications will be sent on the provider
Choose Host	Required if FTP 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)

DPL Ingest Configuration

Modify Configuration Providers (cont.)



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

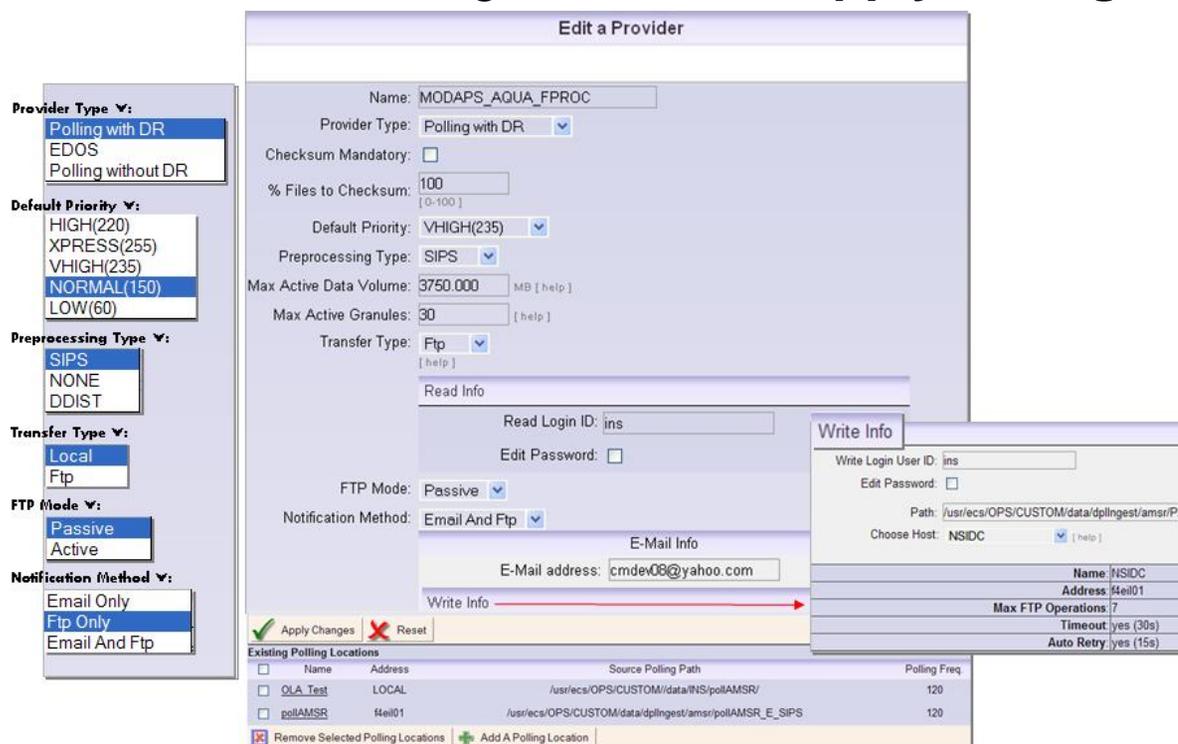
Field Name	Entry	Description
Read Login Id	Required if a polling location uses FTP or SCP	User Id for getting read permissions on the provider's polling directories
Read Info: Edit Password	Required if a polling location uses FTP or SCP	Checkbox displays a password and verify password field that are 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**.



Provider Type ▼:
Polling with DR
EDOS
Polling without DR

Default Priority ▼:
HIGH(220)
XPRESS(255)
VHIGH(235)
NORMAL(150)
LOW(60)

Preprocessing Type ▼:
SIPS
NONE
DDIST

Transfer Type ▼:
Local
Ftp

FTP Mode ▼:
Passive
Active

Notification Method ▼:
Email Only
Ftp Only
Email And Ftp

Edit a Provider

Name: MODAPS_AQUA_FPROC
Provider Type: Polling with DR
Checksum Mandatory:
% Files to Checksum: 100 [0-100]
Default Priority: VHIGH(235)
Preprocessing Type: SIPS
Max Active Data Volume: 3750.000 MB [help]
Max Active Granules: 30 [help]
Transfer Type: Ftp [help]

Read Info
Read Login ID: ins
Edit Password:

Write Info
Write Login User ID: ins
Edit Password:
Path: /usr/ecs/OPS/CUSTOM/data/dplngest/amrsr/P/
Choose Host: NSIDC [help]

E-Mail Info
E-Mail address: cmdev00@yahoo.com

Write Info →

Apply Changes Reset

Existing Polling Locations

<input type="checkbox"/>	Name	Address	Source Polling Path	Polling Freq
<input type="checkbox"/>	OLA_Test	LOCAL	/usr/ecs/OPS/CUSTOM/data/INS/pollAMSR/	120
<input type="checkbox"/>	pollAMSR	tleil01	/usr/ecs/OPS/CUSTOM/data/dplngest/amrsr/pollAMSR_E_SIPS	120

Remove Selected Polling Locations Add A Polling Location

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.

The screenshot displays the 'Edit a Polling Location' web interface. The main form is titled 'Edit a Polling Location' and contains the following fields:

- Parent Provider: AMSR_E_SIPS
- Polling Location Name: OLA_Test
- Source Polling Path: /usr/ecs/OPS/CUSTOM/data/INS/pc
- Polling Frequency: 120 (seconds)
- DPL Ingest Enabled:
- Polling Method: FTP Host
- Host Name: Define New Host...

Below these fields is the 'New Host Parameters' section with the following fields:

- Label: [] (the label for this host)
- Address: [] (the DNS name or IP address and port)
- Max. Operations: 5 (max. concurrent Operations)
- Timeout: (enable host timeout)
- Expected Throughput: 3.000 (Minimum expected throughput, in MB/s)
- Pad Time: 30 (seconds)
- Auto Retry: (enable automatic retry when Host is suspended)
- Retry Interval: 120 (seconds)

At the bottom of the main form are 'Apply Changes' and 'Reset' buttons. A yellow callout box titled 'Existing Host Parameters' is overlaid on the right side of the main form, showing the following parameters for the selected host:

Parameter	Value
Name	NSIDC
Address	f4eil01
Max FTP Operations	7
Timeout	yes (30s)
Auto Retry	yes (15s)

At the bottom of the callout box are 'Apply Changes' and 'Reset' buttons.

DPL Ingest Configuration Modify Configuration Providers (cont.)



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

Provider Configuration page, at bottom – options to Remove or Add a Provider

Remove Selected Providers Add A Provider...

Add a Provider

Provider Type: Polling with DR
EDOS
Polling without DR

Default Priority: HIGH(220)
XPRESS(255)
VHIGH(235)
NORMAL(150)
LOW(60)

Preprocessing Type: SIPS
NONE
DDIST

Transfer Type: Local
Ftp
Scp using F-Secure and no cipher
Scp using OpenSSH and cipher aes128
Scp using OpenSSH and cipher des

FTP Mode: Passive
Active

Notification Method: Email Only
Ftp Only
Email And Ftp
Scp Only
Email And Scp

Name: _____

Provider Type: Polling with DR

Checksum Mandatory:

% Files to Checksum: 0 [0-100]

Default Priority: VHIGH(235)

Preprocessing Type: SIPS

Max Active Data Volume: 0.000 MB [help]

Max Active Granules: 0 [help]

Transfer Type: Local [help]

FTP Mode: Passive

Notification Method: Email Only

E-Mail Info

E-Mail address: _____

Write Info

Write Login User ID: _____

Write Login Password: _____

Confirm Write Login Password: _____

Path: _____

Choose Host: Define New Host [help]

New Host Parameters

Label: Hdp01 [the label for this host]

Address: _____ [the DNS name or IP address and port]

Max. Operations: 5 [max. amount of Operations]

Timeout: [enable host timeout] Expected Throughput: 3 000 [minimum expected throughput, in MB/s]

Pad Time: 30 [seconds]

Auto Retry: [enable automatic retry when host is suspended] Retry Interval: 120 [seconds]

Read Info

Read Login ID: _____ [help]

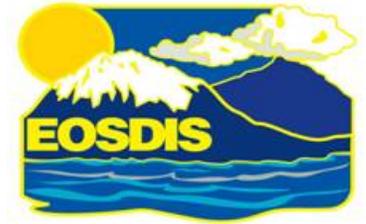
Read Login Password: _____ [help]

Confirm Read Login Password: _____

Add This Provider Reset

DPL Ingest Configuration

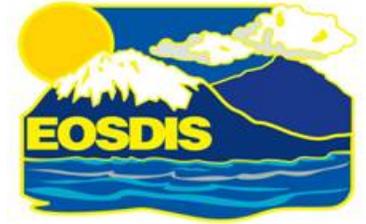
Modify Configuration Providers (cont.)



- **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

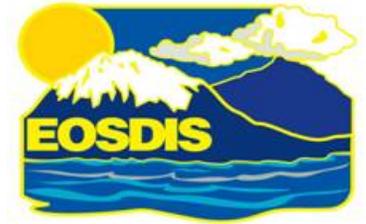
Modify Configuration Providers (cont.)



- **Procedure: Add a Provider (cont.)**
 - Enter **Max Active Data Volume** (in MB)
 - Enter **Max Active Granules**
 - Select **Transfer Type**.
 - Select **FTP Mode**.
 - Select **Notification Method**:
 - Email Only
 - FTP Only or SCP Only
 - FTP Host
 - Local (no path or Read Info entry is required)
 - 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 or FTP 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 file 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**

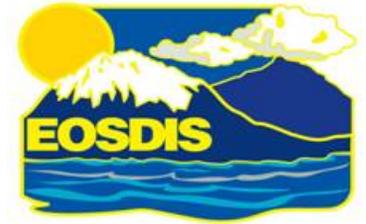
- Select the **Configuration, Data Types** link.
- Click the checkbox of the **Short Name Version ID**.
- At page bottom, make the desired parameter changes:
 - Select **Publish in public DPL**.
 - Select **Ignore validation warnings**, if XML validation warnings are to be ignored .
- Select **Apply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

The screenshot shows the "Data Type Configuration" web interface. On the left is a navigation menu with options like Home, Monitoring, Configuration, and Help. The main content area is titled "Data Type Configuration" and contains a table of data types. The table has columns for "Short Name Version ID", "Public In Data Pool", "Ignore Validation Warnings", "Create Map Granules", and "Duplicate Detection Rule". Below the table are four dropdown menus for "Publish in public DPL", "Ignore validation warnings", "Create Map Granules", and "Duplicate Detection Rule", each set to "NO CHANGE". At the bottom are "Apply Changes" and "Reset Values" buttons.

Short Name Version ID	Public In Data Pool	Ignore Validation Warnings	Create Map Granules	Duplicate Detection Rule
<input type="checkbox"/> AA_L2A 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	File Collision Only
<input type="checkbox"/> ACR3L0 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ASTER Rule
<input type="checkbox"/> ACR3L2DM 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ASTER Rule
<input type="checkbox"/> ACR3L2SC 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ASTER Rule
<input type="checkbox"/> ActSched 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_SDSno 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_SDSno 002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_SDSno 086	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_DyOcn 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_DyOcn 002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_DyOcn 086	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_DySno 001	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs
<input type="checkbox"/> AE_DySno 002	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Identical LOIDs

DPL Ingest Configuration

Transfer Host Configuration



- **The Configuration Transfer Host link allows the Operator to manage SCP, FTP, 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 or FTP 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					
<input type="checkbox"/>	Label	Address	Max. FTP Operations	Timeout (Expected Throughput + Pad Time)	Auto Retry Interval
<input type="checkbox"/>	NSIDC	file01	7	3.000MB/s + 30s	15s
<input type="checkbox"/>	fdpl01	fdpl01.hitc.com	10	3.000MB/s + 30s	120s
<input type="checkbox"/>	file01	file01.hitc.com	5	3.000MB/s + 30s	120s
<input checked="" type="checkbox"/> Remove Selected Hosts <input type="checkbox"/> Add A FTP Host...					
[HELP]					
Existing SCP Hosts					
<input type="checkbox"/>	Label	Address	Max. SCP Operations	Timeout (Expected Throughput + Pad Time)	Auto Retry Interval
<input type="checkbox"/>	fdpl01	fdpl01	10	3.000MB/s + 30s	15s
<input type="checkbox"/>	file01	file01	25	3.000MB/s + 30s	20s
<input type="checkbox"/>	file01	file01	25	3.000MB/s + 30s	15s
<input checked="" type="checkbox"/> Remove Selected Hosts <input type="checkbox"/> 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

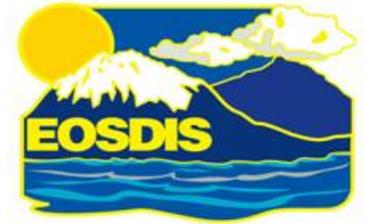
Add SCP or FTP Host



- **Procedure: Add SCP or FTP Host**
 - Select the **Configuration** link.
 - Select **Transfer Host** link.
 - In the **Existing FTP Host** or **Existing SCP Hosts** section, Select **Add A [FTP/SCP] 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.

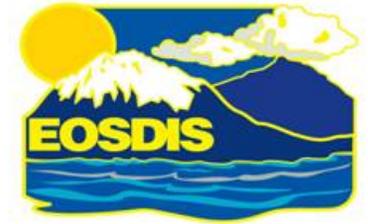
DPL Ingest Configuration

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	<input type="text" value="88"/>	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	<input type="text" value="99"/>	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	<input type="text" value="85"/>	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	<input type="text" value="95"/>	[percent]
Amfs1 /stornext/amfs1/			
Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	<input type="text" value="76"/>	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	<input type="text" value="80"/>	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	<input type="text" value="60"/>	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	<input type="text" value="70"/>	[percent]
Browfs /stornext/browfs/			
Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	<input type="text" value="90"/>	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	<input type="text" value="99"/>	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	<input type="text" value="88"/>	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	<input type="text" value="95"/>	[percent]
Snfs1 /stornext/snfs1/			
Cache Warning Threshold	The percentage of cache used which will trigger an operator alert	<input type="text" value="90"/>	[percent]
Cache Full Threshold	The percentage of cache used which will trigger an operator alert and suspend the Archive File System	<input type="text" value="99"/>	[percent]
Cache Warning Low Watermark	The percentage of cache used that will clear the Archive Cache Warning Alert	<input type="text" value="88"/>	[percent]
Cache Full Low Watermark	The percentage of cache used that will clear the Archive Cache Full Alert	<input type="text" value="95"/>	[percent]
<input checked="" type="checkbox"/> Update <input checked="" type="checkbox"/> Reset			
[HELP]			
DataPool File System			
Warning Threshold	The percentage of cache used which will trigger an operator alert	<input type="text" value="90"/>	[percent]
Warning Low Watermark	The percentage of cache used that will clear the File System Warning Alert	<input type="text" value="81"/>	[percent]
<input checked="" type="checkbox"/> Update <input checked="" type="checkbox"/> 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.**

ECS Services Configuration

Checksum Types And Algorithms [Help]

Type	Algorithm	Default
<input type="checkbox"/> CKSUM	/usr/bin/cksum	<input checked="" type="radio"/>
<input type="checkbox"/> MD5	/usr/ecs/OPS/CUSTOM/bin/COM/md5sum	<input type="radio"/>

Remove Add Update Reset

Add Checksum Type

New Checksum Type Information:
 Type: [] Algorithm: [] [OK]
 Displays after click, otherwise not visible

Hosts Used For ECS Services

Name	Address	Comments	Checksum (Num. Slots)	File Transfer (Num. Slots)	SCP	Archive (Num. Slots)	Max. Insert Checksum Operations (Num. Slots)	Max. Insert Copy Operations (Num. Slots)
<input type="checkbox"/> f4ell01	f4ell01	External Interface	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input type="checkbox"/> f4hl01	f4hl01	External Interface	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0
<input type="checkbox"/> f4hel01	f4hel01	no comment	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 4
<input type="checkbox"/> f4oml01	f4oml01	no comment	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 4
<input type="checkbox"/> f4spl01	f4spl01	no comment	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 0	<input checked="" type="checkbox"/> 4

Remove Selected Hosts Add ECS Service Host...

The page at http://f4dpl01.bitc.com:25010 says:
 WARNING: THIS SHOULD ONLY BE DONE IF THE SERVER IS DOWN! Are you sure you want to remove the selected ECS Service hosts?
 OK Cancel

Default checksumming service

Available number of ECS service slots

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 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.)

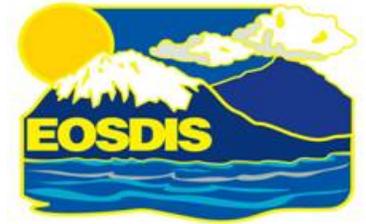


- **Procedure: Add Checksum Type**
 - Select the **Configuration Link**
 - Select **ECS Services Link**
 - In the Checksum Types and Algorithms, click the **Add** button.
 - Click in the **Type** textbox and enter the **Checksum Type**.
 - Click in the input box next to **Algorithm** and enter the Algorithm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

The screenshot shows a web-based configuration window titled "ECS Service Configuration: Add Service Host". The window is divided into several sections, each with a purple header bar. The sections are: "Global Parameters" (with fields for Label, Address, Quick Server Port, Auto Retry, and Comments), "Checksum" (with checkboxes for enabling the service and input fields for Max. Concurrent Checksum Operations, Expected Throughput, and Checksum Timeout Pad Time), "File Transfer" (with checkboxes for enabling the service and SCP, and input fields for Flp Service Port and Max. Concurrent File Transfers), "Archiving" (with checkboxes for enabling the service and input fields for Max. Concurrent Archive Operations, Expected Throughput, and Archive Timeout Pad Time), "Band Extraction" (with checkboxes for enabling the service and input fields for Max. Concurrent Band Extractions and Band Extraction Timeout Value), "Insert Checksum" (with input fields for Max. Concurrent Insert Checksum Operations and Expected Throughput), and "Insert Copy" (with input fields for Max. Concurrent Insert Copy Operations, Expected Throughput, and Insert Copy Timeout Pad Time). At the bottom of the window, there are two buttons: "Add This Service Host" with a green checkmark icon and "Cancel" with a red X icon.

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**

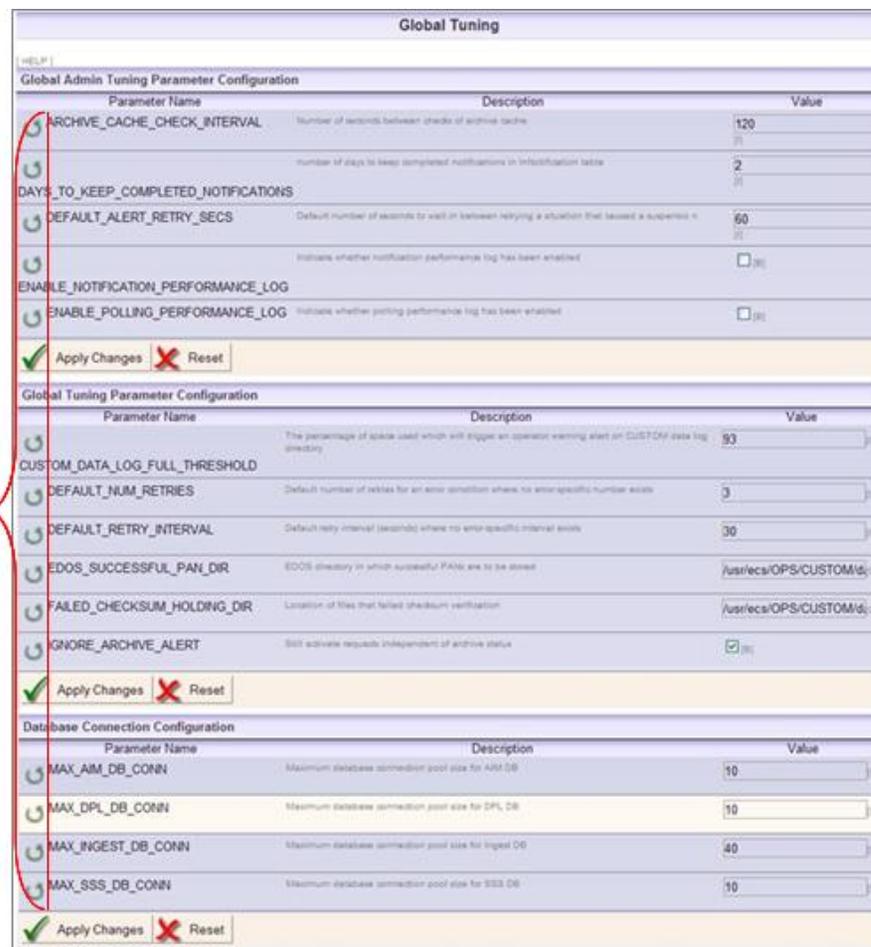
DPL Ingest Configuration

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**

Dynamic parameters indicators (green curled arrow)



Parameter Name	Description	Value
ARCHIVE_CACHE_CHECK_INTERVAL	Number of records between checks of archive cache	120
DAYS_TO_KEEP_COMPLETED_NOTIFICATIONS	Number of days to keep completed notifications in Information table	2
DEFAULT_ALERT_RETRY_SECS	Default number of seconds to wait in between retrying a situation that caused a suspension	60
ENABLE_NOTIFICATION_PERFORMANCE_LOG	Indicates whether notification performance log has been enabled	<input type="checkbox"/>
ENABLE_POLLING_PERFORMANCE_LOG	Indicates whether polling performance log has been enabled	<input type="checkbox"/>
Apply Changes Reset		

Parameter Name	Description	Value
CUSTOM_DATA_LOG_FULL_THRESHOLD	The percentage of space used which will trigger an operator warning alert on CUSTOM data log directory	93
DEFAULT_NUM_RETRIES	Default number of retries for an error condition where no error-specific number exists	3
DEFAULT_RETRY_INTERVAL	Default retry interval (seconds) where no error-specific interval exists	30
EDOS_SUCCESSFUL_PAN_DIR	EDOS directory in which successful PANs are to be stored	/usr/ecs/OPS-CUSTOM/...
FAILED_CHECKSUM_HOLDING_DIR	Location of files that failed checksum verification	/usr/ecs/OPS-CUSTOM/...
IGNORE_ARCHIVE_ALERT	Still archive requests independent of archive status	<input checked="" type="checkbox"/>
Apply Changes Reset		

Parameter Name	Description	Value
MAX_AIM_DB_CONN	Maximum database connection pool size for AIM DB	10
MAX_DPL_DB_CONN	Maximum database connection pool size for DPL DB	10
MAX_INGEST_DB_CONN	Maximum database connection pool size for Ingest DB	40
MAX_SSS_DB_CONN	Maximum database connection pool size for SSS DB	10
Apply Changes Reset		

DPL Ingest Configuration

Volume Groups Configuration

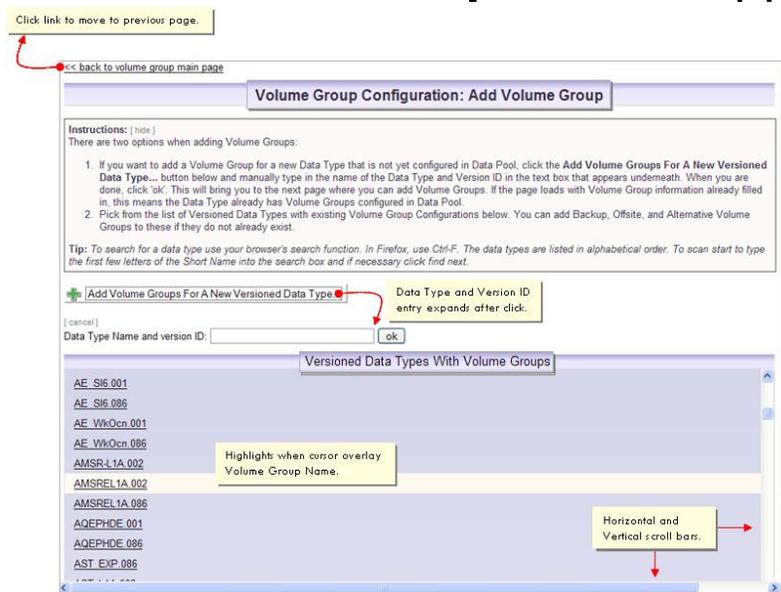
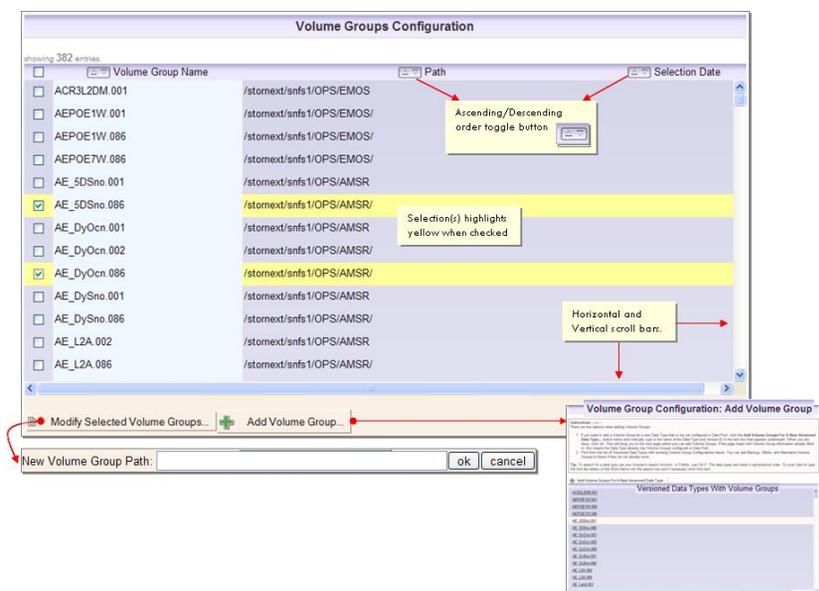


- **The Volume Group configuration in the DPL Ingest GUI was developed to duplicate the functionality in the decommissioned STMGT GUI tab with minor refinements and enhancements.**
- **The Volume Groups Configuration page is divided into four distinct columns**
 - **Volume Group name**
 - **Path**
 -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

Click link to move to previous page.

<< back to data type list

Volume Groups Configuration: Add a Volume Group

Add Volume Groups

Data Type and Version ID: AE_5DSno.001

Alternative VG Options:

Expands after checked

Reprocessing Forward Processing

Selection Date for alternative Volume Groups:

month: 1 day: 1 year: 1

Primary Volume Group	Primary Alternative Volume Group
Path:/stornext/snfs1/OPS/AMSR	Path:
Backup Volume Group	Backup Alternative Volume Group
Path:	Path:
Offsite Volume Group	Offsite Alternative Volume Group
Path:	Path:

The page at http://f4dpl01.hitc.com:25100 says:

Are you sure you want to cancel? This will take you to the main Volume Group configuration page.

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

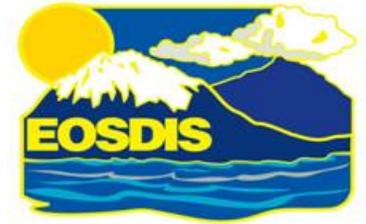
Volume Groups Configuration (cont.)



- **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**.

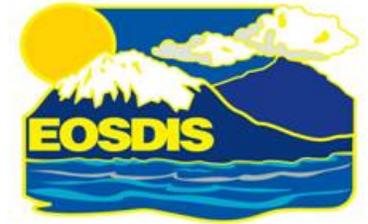
DPL Ingest Configuration

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 as SCP/FTP 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.)

DATA POOL INGEST web GUI Wed Feb 25 2009 17:28:04

Operator Configuration

Note:
Changes to an existing operator's permissions will not take effect until the next login for that particular operator.

HELP → **What do these permissions mean?**
Hover your mouse over any permission icon for a detailed explanation of each permission level.

Operator Name	Permissions
<input type="checkbox"/> IngAdmin	<input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security
<input type="checkbox"/> JonR	<input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input checked="" type="checkbox"/> ingest security
<input type="checkbox"/> Matt's Test	<input checked="" type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input type="checkbox"/> ingest admin <input type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security
<input type="checkbox"/> TomR	<input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security
<input checked="" type="checkbox"/> V0000	<input checked="" type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input type="checkbox"/> ingest admin <input type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security
<input type="checkbox"/> V000A	<input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security
<input type="checkbox"/> V00T0	<input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security
<input type="checkbox"/> V00TA	<input type="checkbox"/> view only <input checked="" type="checkbox"/> ingest control <input checked="" type="checkbox"/> ingest admin <input checked="" type="checkbox"/> ingest tuning <input type="checkbox"/> ingest security

Update Operators Remove Operators

Add Operator

Operator Name:

Password:

Verify Password:

Permissions: view only ingest control ingest admin ingest tuning ingest security

Legend: Operator Permissions and related context-sensitive Help Tips.

view only

The operator can only view pages in this application and **can not** manage (such as suspend or resume requests) or make changes to configuration parameters. A view-only operator will see most text boxes, buttons, and checkboxes disabled.

ingest control

The operator can manage requests and interventions - actions like suspend, resume, and change priority. The operator can also clear alerts and fail or retry granules associated with any request and enter operator annotations.

ingest admin

The operator can configure Providers, Data Types, Remote Hosts, Archive File Systems, and ECS Services.

ingest tuning

The operator can modify global tuning parameters.

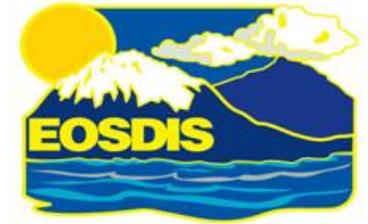
ingest security

The operator can manage (add, delete, modify) operators.

Highlights on cursor overlay.

DPL Ingest Configuration

Add Operator Permission Settings

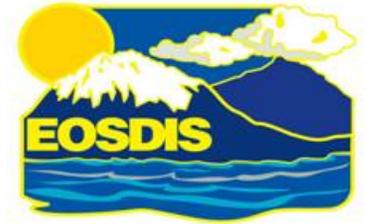


- **Procedure: Add Operator Permission Settings**
 - Select the **Configuration, Operators** link.
 - Locate the **Operator Configuration** page, **Add Operator** section.
 - Perform the following to settings:
 - Enter the **Operator Name** .
 - Enter the **Password**, then **Verify Password**.
 - Select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

A screenshot of the "Add Operator" web form. The form has a light purple header with the title "Add Operator". Below the header, there are four input fields: "Operator Name" containing "DavidH", "Password" with masked characters "*****", and "Verify Password" also with "*****". Below these fields is a "Permissions" section with a list of checkboxes and icons: "view only" (unchecked), "ingest control" (checked with a green checkmark), "ingest admin" (unchecked), "ingest tuning" (unchecked), and "ingest security" (checked with a green checkmark). At the bottom left of the form is a button with a green plus icon and the text "Add Operator".

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.)



Detailed Report

Date/Time Criteria

Start Date/Time: month: 1, day: 1, year: 2009, hour: 12, min: 8
 End Date/Time: month: 1, day: 30, year: 2009, hour: 12, min: 8

Presets: Last 24 hours, Last 48 hours (highlighted with red arrow) → Previous criteria runs.

Data Criteria

Data Provider: --ALL PROVIDERS-- (ArchiveOnline selected)
 Data Type: --ALL DATA TYPES-- (AEPOE1W.001 selected)
 Final Request Status: Successful, Cancelled, Partially_Cancelled, Failed, Partial_Failure, Terminated
 Ingest Method: DPL, NON-DPL

 Generate Report

Report Output
No report generated yet.

Current Report Criteria:

Data Provider(s): [ArchiveOnline] Data Type(s): [ALL]
 Final Request Status: [ALL] Start Date/Time: 1/1/2009 12:8
 End Date/Time: 1/30/2009 12:8

Generates "Report Output"

"Report Output" if criteria not met.

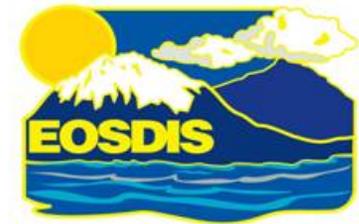
Report Output

Req.ID	Data Provider	Ingest Type	Ingest Method	Request Status	Start Date/Time	End Date/Time	Tot.# grans.	# Succ. grans.	Vol (MB)	File Count	Time to xfer (secs)	Time to preproc (secs)	Time to Archive (secs)	Priority	Restart Flag
274518	ArchiveOnline	Polling_w/DR	DPL	Successful	2009-01-07 10:17:13	2009-01-07 10:17:17	1	1	0.125	2	0	3	0	HIGH	
274519	ArchiveOnline	Polling_w/DR	DPL	Successful	2009-01-07 10:17:13	2009-01-07 10:17:17	1	1	0.360	2	0	5	0	HIGH	
274704	ArchiveOnline	Polling_w/DR	DPL	Successful	2009-01-13 08:13:59	2009-01-13 08:14:05	1	1	0.125	2	0	3	0	HIGH	
274705	ArchiveOnline	Polling_w/DR	DPL	Successful	2009-01-13 08:13:59	2009-01-13 08:14:05	1	1	0.360	2	0	5	0	HIGH	

Highlights on cursor overlay.

Reports

Generating Reports (cont.)



Request Summary Report

Date/Time Criteria

Start Date/Time: month: 12, day: 1, year: 2008, hour: 12, min: 28
 End Date/Time: month: 2, day: 26, year: 2009, hour: 12, min: 28
 Presets: Last 24 hours, Last 48 hours, Previous criteria runs.

Data Criteria

Data Provider: ASTER_GDS, ASTER_OSF, ArchiveOnline, BMGT, DDIST, ECSBulkExport, EOS
 Data Type: --ALL DATA TYPES--
 Final Request Status: --ALL STATUSES--
 Ingest Method: DPL, NON-DPL

Generate Report

Report Output
No report generated yet.

Current Report Criteria:

Data Type(s): [ALL]
 Start Date/Time: 12/1/2008 12:28
 Final Request Status: [ALL]
 End Date/Time: 2/26/2009 12:28

Report Output

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

Generates "Report Output"

Highlights on cursor overlay.

"Report Output" if criteria not met.

Reports

Generating Reports (cont.)



Granule Summary Report

Date/Time Criteria

Start Date/Time: month: 1, day: 1, year: 2008, hour: 2, min: 10
 End Date/Time: month: 1, day: 1, year: 2009, hour: 1, min: 2

Presets: Last 24 hours, Last 48 hours, **Previous criteria runs.**

Data Criteria

Data Provider: --ALL PROVIDERS--
 Data Type: --ALL DATA TYPES--
 Final Request Status: --ALL STATUSES--
 Ingest Method: DPL

Current Report Criteria

Data Provider(s): [ALL] Data Type(s): [ALL]
 Final Request Status: [ALL] Start Date/Time: 1/1/2008 2:10
 End Date/Time: 1/1/2009 1:2

Report Output

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_wDR	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_wDR	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_wDR	DPL	MOD29P1D	4	0	0.024	2.000	2	6.110	6.110	0.000	0	0.000	0	0.000	0
Bender	Polling_wDR	DPL	DAP	2	1	0.002	2.000	2	1.250	1.2	0.000	0	0.000	1	0.000	0
JPL	Polling_wDR	DPL	AE_DySno	1	0	0.002	2.000	2	2.055	2.0	0.000	0	25.000	25	1.000	1
Bender	Polling_wDR	DPL	MYD14	213	2	0.052	2.000	2	0.249	0.745	0.901	21	4.803	12	0.643	4
JPL	Polling_wDR	DPL	AE_Si25	1	0	0.020	2.000	2	20.954	20.954	0.000	0	0.000	0	0.000	0
MODAPS_TERRA	Polling_wDR	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_wDR	DPL	MOD29P1D	5190	25	1.063	2.000	2	0.210	0.850	1.028	60	8.545	367	0.840	18
pchen	Polling_wDR	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_wDR	DPL	MYD29P1N	10	0	0.001	2.000	2	0.124	0.291	0.100	1	11.000	13	0.200	1
LeoProvider	Polling_wDR	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_wDR	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

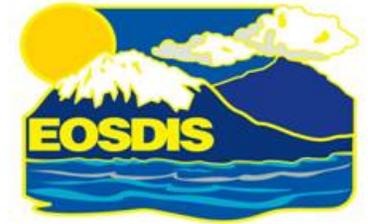
Report Output
No report generated yet.

Generates "Report Output"

"Report Output" if criteria not met.

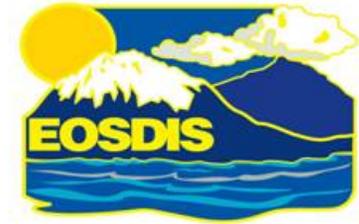
Highlights on cursor overlay.

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**

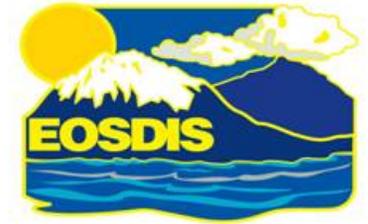
Help General Topics



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

A screenshot of a web browser window displaying the "DPL Ingest GUI (DEV09)". The browser's address bar shows "DPL Ingest GUI (DEV09) - Mozilla Firefox". The page title is "DATA POOL INGEST with OSM". The date and time in the top right corner are "Thu Feb 1 2007 15:43:35".
The page content includes:
- A left-hand navigation menu with links: Home, Monitoring, Interventions & Alerts, Configuration, Reports, Help, General Topics (highlighted), Contact Help, and About.
- An "Index" section with a search prompt and two links: "Request State Transition" and "Granule State Transition".
- A "Request State Transition" section with an introductory paragraph and two bullet points:
 - "If a requests is 'stuck' and does not move to the next state after a reasonable amount of time, then the Processing Service may be down. This is normally, but not always, indicated on the GUI's home (Ingest Status) page under the Processing Service Status."
 - "If requests are being submitted and not being picked up, it is possible the Polling Service or Quick Server may down or suspended."
- A "Possible Request Paths:" section with three columns:
 - "Normal Transition": 1. New, 2. validated - validation successful, 3. Active - dispatched, 4. Successful - all granules successful, PMD work, loaded.
 - "Cold Restart": 1. New, 2. validated - validation successful, 3. Terminated - work failed.
 - "Validation Failed": 1. New, 2. Failed - validation failed.
- A "Possible Request Paths (cont.)" section with three columns:
 - "Failed Granules": 1. New, 2. validated - validation successful, 3. Active - dispatch failed, 4. one of:
 - Partial Failure - not all granules failed
 - Failed - all granules failed.
 - "Suspended Granules": 1. New, 2. validated - validation successful, 3. Active - dispatched, 4. One of:
 - Partially_Suspended - at least one granule suspended, one active
 - Suspended - at least one suspended, none active
 - Operator resumes granule from checkpoint, at which point the states would go to:
 - Resuming - at least one granule suspended, one active.
 - "Operator Cancellation": 1. New, 2. validated - validation successful, 3. Active - dispatched, 4. Cancelling - operator named request, 5. one of:
 - Partially_Canceled - not all granules cancelled
 - Cancelled - all granules cancelled.
- A "Granule State Transition" section with an introductory paragraph and a "Possible Granules Paths:" section with two columns:
 - "Normal Transition": 1. Processing (START), 2. Transferred.
 - "Possible Error States": (empty)

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



Data Pool Maintenance

Home Page
Batch Summary
List Insert Queue
Collection Groups
Themes
Data Pool File Systems

Cloud Cover
Configuration Parameters
Aging Parameters
Help
End Session

[Refresh Home Page](#)

Screen Refresh Rate: (in Secs) Last Screen Refresh on Tue Apr 6 12:24:46 EDT 2010

Active Insert Processes: rows

Active Insert Status Filter: Pending Validated Copied Checksummed Extracted

Summary of Data Pool File System(s)

File System Path	Ingest Status	DPL Ingest Status	Free Space	Used Space Updated	Free Space Flag	Availability	Me
DEFAULT /datapool/OPS/user/FS1/	active	active	926 GB	16% Apr 6 2010 12:22PM	State : Y Last Changed: Dec 9 2009 10:29AM	State : Y Last changed: Dec 9 2009 10:29AM	
FS2 /datapool/OPS/user/FS2/	active	active	1060 GB	4% Apr 6 2010 12:22PM	State : Y Last Changed: Dec 9 2009 10:29AM	State : Y Last changed: Dec 9 2009 10:29AM	

Summary of Active Processes

Maximum allowed processes	20000
Maximum allowed processes from archive cache	20
Maximum allowed processes from archive tape	69
Total number of active insert processes running	0
Total number of validated active insert processes running	0
Total number of pending active insert processes running	0
Number of active insert processes using archive cache	0
Number of active insert processes using archive tape	0

List of Active Insert Processes (Rows 0)

Unix ProcessId	ecsID	Collection	Version	Start Time	Status Time	Status	Archive Cache	Retries
(No active insert processes listed)								

DPM GUI Collection Groups



Data Pool Maintenance OPS

[Home Page](#)
[Batch Summary](#)
[Last Insert Queue](#)
[Collection Groups](#)
[Themes](#)
[Data Pool File Systems](#)
[Cloud Cover](#)
[Configuration Parameters](#)
[Aqua Parameters](#)
[Help](#)

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 ACRDM 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	MODIS Oceans 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

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

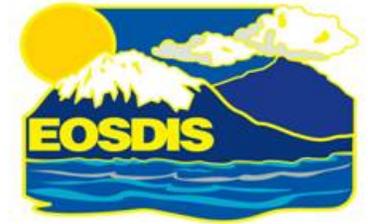
Collection (Click for Detail Information)	Version	Science Granules and/or Metadata	Data Pool Insertion	HEG Processing	Export Urls to ECHO	Quality Summary Url	Spatial Search Type	Global Coverage	Day/Night Coverage	24 Hour Coverage	Cloud Coverage	Nominal Coverage Rule	Check the Box to Delete Collection
AE_L2A	001	science and metadata	valid for Data Pool	Enabled	Yes	--	Orbit	No	No	No	No	--	<input type="checkbox"/>
AMSR-L1A	001	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	<input type="checkbox"/>
AE_DrOcn	002	science and metadata	valid for Data Pool	Enabled	Yes	--	Rectangle	Yes	No	Yes	No	--	<input type="checkbox"/>
AEPOE1W	001	science and metadata	valid for Data Pool	Disabled	Yes	--	Not supported	No	No	Yes	No	--	<input type="checkbox"/>
AMSR_E1A	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	<input type="checkbox"/>
AE_Land	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	<input type="checkbox"/>
AE_Rain	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Orbit	No	No	No	No	--	<input type="checkbox"/>
AE_RnGd	002	science and metadata	valid for Data Pool	Disabled	Yes	--	Rectangle	Yes	Yes	Yes	No	--	<input type="checkbox"/>

[Add New Collection](#) [Return to previous page](#)

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

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.)

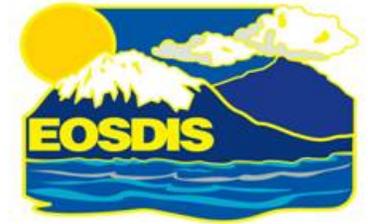


- **Procedure: Modifying Collection Groups**
 - Select the DPM GUI **Collection Groups** link.
 - Select the **Modify Collection Group** link.
 - Make desired changes to the **Display Name** and **Description**.
 - Select checkbox at the end of the row.
 - Click the **Apply Changes** button.

A screenshot of a Netscape browser window displaying the "Data Pool Maintenance GUI -- DEV08 MODE". The browser's address bar shows a URL starting with "http://f4he01.hitc.com:22181/cgi-bin/EcDpManageCollGroups.pl?collaction=2". The page has a teal header with the title "Data Pool Maintenance" and "DEV08" on the right. Below the header is a navigation menu with links: "Home Page", "Batch Summary", "List Insert Queue", "Collection Groups", "Themes", "Data Pool File Systems", "Cloud Cover", "Configuration Parameters", "Apply Parameters", and "Help". The main content area is titled "Modify Collection Group" and contains a table with the following data:

Data Source	Group ID (Click to manage collection)	Display Name	Description
ECS	ACRM	ACRM	All collections/granules from the ACRM 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	DASP2	DASP2	DASP2

DPM GUI Collection Groups (cont.)



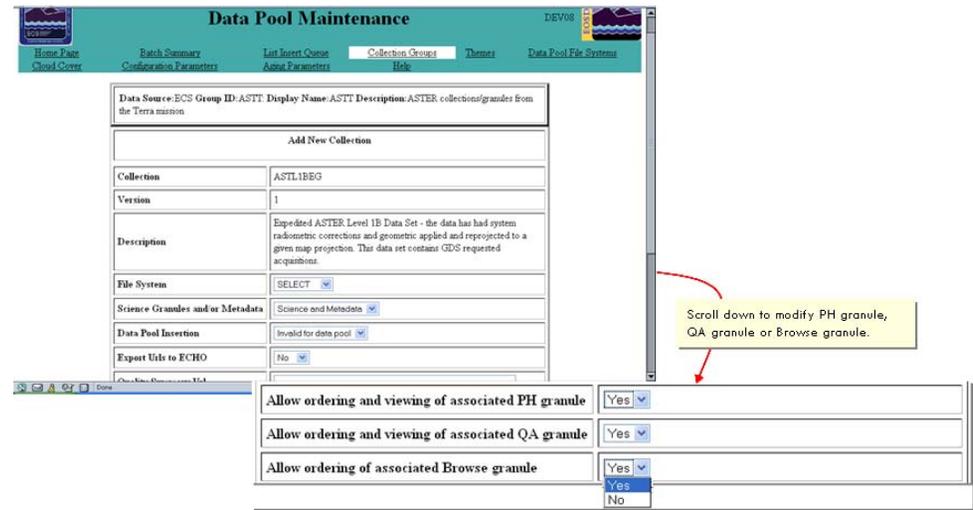
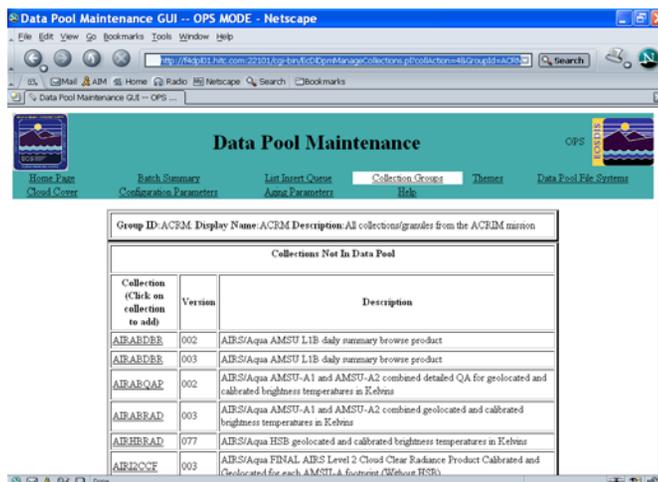
- **Procedure: Add a Collection Group**
 - Select the DPM GUI **Collection Groups** link.
 - Select the **Add Collection Group** link.
 - Enter **Display Source**, **Group ID**, **Display Name** and **Description**.
 - Click on the **Apply Change** button.
- **Note: Once entered, the Collection Group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

A screenshot of a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The address bar shows a URL starting with "http://fhhe01.htr.com:22181/cj-bin/EcdDpmManageCollGroups.pl?collection=1". The browser interface includes a menu bar (File, Edit, View, Go, Bookmarks, Tools, Window, Help) and a search bar. The main content area has a green header with "Data Pool Maintenance" and "DEV08" on the right. Below the header is a navigation menu with links: Home Page, Batch Summary, List Insert Queue, Collection Groups (highlighted), Themes, Data Pool File Systems, Cloud Cover, Configuration Parameters, Apply Parameters, and Help. The main form is titled "Add Collection Group" and contains a table with four columns: Data Source, Group ID, Display Name (Optional), and Description. The "Data Source" column has a dropdown menu with "ECS" selected. Below the table are two buttons: "Return to previous page" and "Apply Change". A note at the bottom states: "NOTE The Display Name will default to the GroupID unless specifically set to something else." The browser's status bar at the bottom shows the address bar and navigation icons.

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.

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
ASTLIADG	001	science and metadata	valid for Data Pool	Disabled	No	--	GPolygon	No	Yes	No	No
ASTLIXP1	001	science and metadata	valid for Data Pool	Disabled	No	--	Not supported	No	Yes	No	No

Data Source: ECS Group ID: MOTA Display Name: MOTA Description: MOTA

Modify Collection

Collection	MCD43C1
Version	86
Description	MODIS Terra plus Aqua Combined Albedo 16-Day L3 Global 0.05Deg CMG
File System	DEFAULT
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Insert
HEG Processing	Disabled
Export URL to ECHO	No
Quality Summary URL	

Scroll down to modify PH granule, QA granule or Browse granule.

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