

625-EMD-108

## **EOSDIS Maintenance and Development Project**

# **Training Material for the EMD Project Volume 8: Data Pool Ingest**

Revision --

July 2007

Raytheon Company  
Upper Marlboro, Maryland



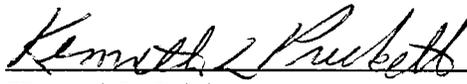
# Training Material for the EMD Project Volume 8: Data Pool Ingest

Revision --

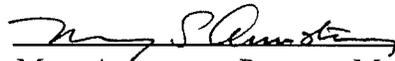
July 2007

Prepared Under Contract NAS5-03098  
CDRL Item 23

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**Raytheon Company**  
Upper Marlboro, Maryland

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# Preface

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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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## Revision History

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625-EMD-108	Original	July 2007	07-0381

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# Abstract

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This is Volume 8 of a series of lessons containing the training material for the Earth Observing System Data and Information System (EOSDIS) Maintenance and Development (EMD) Project. 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 7.20

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## Abstract

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# Introduction

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## Identification

Training Material Volume 8 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) Maintenance and Development (EMD) Contract (NAS5-03098).

## Scope

Training Material Volume 8 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

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## Parent Documents

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

423-41-01	Goddard Space Flight Center, EOSDIS Core System (ECS) Statement of Work
423-46-03	EMD Task 101 Statement of Work For ECS SDPS Maintenance
423-46-02	Contract Data Requirements Document for EMD Task 101 ECS SDPS Maintenance

## Applicable Documents

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

420-05-03	Goddard Space Flight Center, Earth Observing System (EOS) Performance Assurance Requirements for the EOSDIS Core System (ECS)
423-41-02	Goddard Space Flight Center, Functional and Performance Requirements Specification for the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) (ECS F&PRS)
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 EMD Training Material.

609-EMD-100	Release 7.20 Operations Tools Manual for the EMD Project
611-EMD-100	Release 7.20 Mission Operation Procedures for the EMD Project

## 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 EMD Training Material.

305-EMD-100	Release 7.20 Segment/Design Specification for the EMD Project
311-EMD-100	Release 7.20 INGEST (INS) Database Design and Schema Specifications for the EMD Project
311-EMD-101	Release 7.20 Science Data Server Database Design and Schema Specifications for the EMD Project
311-EMD-102	Release 7.20 Storage Management Subsystems Database Design and Database Schema Specifications for the EMD Project
311-EMD-103	Release 7.20 Systems Management Subsystem Database Design and Schema Specifications for the EMD Project
311-EMD-104	Release 7.20 Order Manager Database Design and Database Schema Specifications for the EMD Project
311-EMD-105	Release 7.20 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EMD Project
311-EMD-106	Release 7.20 Data Pool Database Design and Schema Specifications for the EMD Project

# Ingest Overview

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## 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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**Standard** - The student will correctly state the ingest role in the system, state at least three (3) ingest activities, identify four (4) types of ingest automated messages, identify four (4) categories of ingest, and identify at least two (2) 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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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-EMD-100, Release 7.20 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-100, Release 7.20 Mission Operation Procedures for the EMD Project.

**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.

# Slide Presentation

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## **Slide Presentation Description**

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

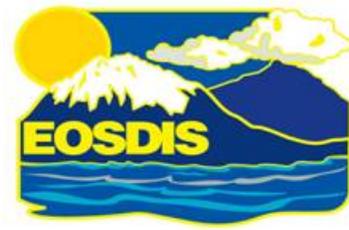
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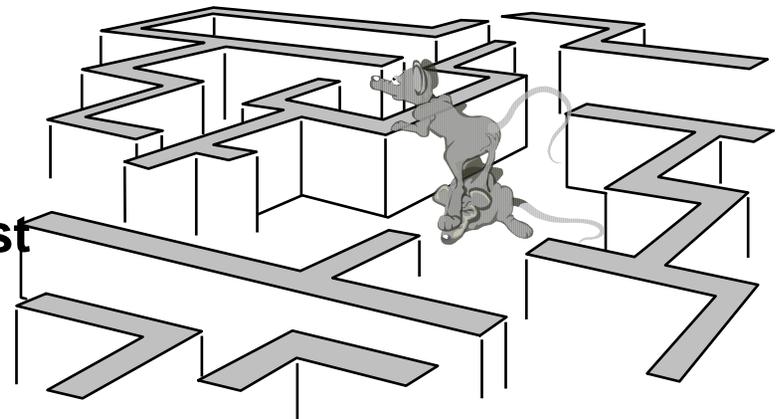
**Ingest**

**July 2007**

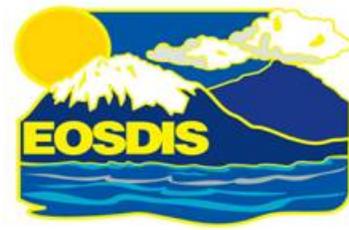
# Overview of Lesson



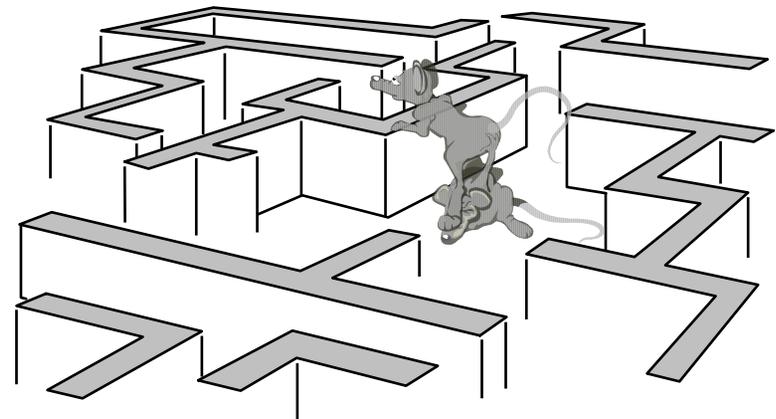
- **Introduction**
- **Ingest Topics**
  - **Ingest Concept**
    - **System Context**
    - **DPL Ingest Subsystem**
  - **Ingest Activities**
  - **Ingest Categories**
  - **Ingest Scenarios**
  - **Logging in to System Hosts**
  - **Launching the Data Pool Ingest GUIs**
  - **Monitoring Data Pool Ingest**



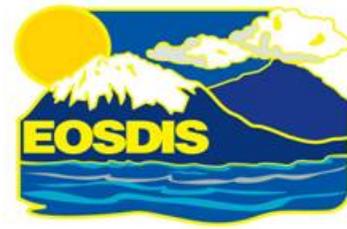
# Overview of Lesson (Cont.)



- **Ingest Topics (Cont.)**
  - **Monitoring Data Pool Ingest Status**
  - **Interventions & Alerts**
  - **Modifying DPL Ingest Configuration Parameters**
  - **Troubleshooting Ingest Problems**

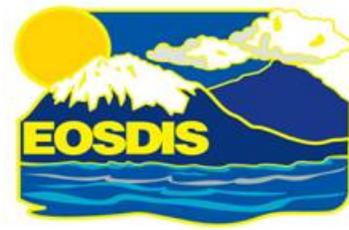


# Objectives



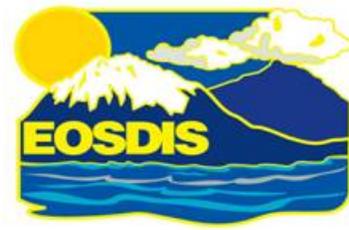
- **OVERALL:**
  - **Develop proficiency in the procedures that apply to ingest operations**
- **SPECIFIC:**
  - **Describe the ingest function, including a general statement of the ingest responsibility in the system and an overview of the ingest process**
  - **Perform the steps involved in**
    - **logging in to system hosts**
    - **launching the ECS DPL Ingest GUI**
    - **monitoring and controlling ingest requests**
    - **viewing the Ingest History Log**
    - **verifying the archiving of ingested data**

# Objectives (Cont.)



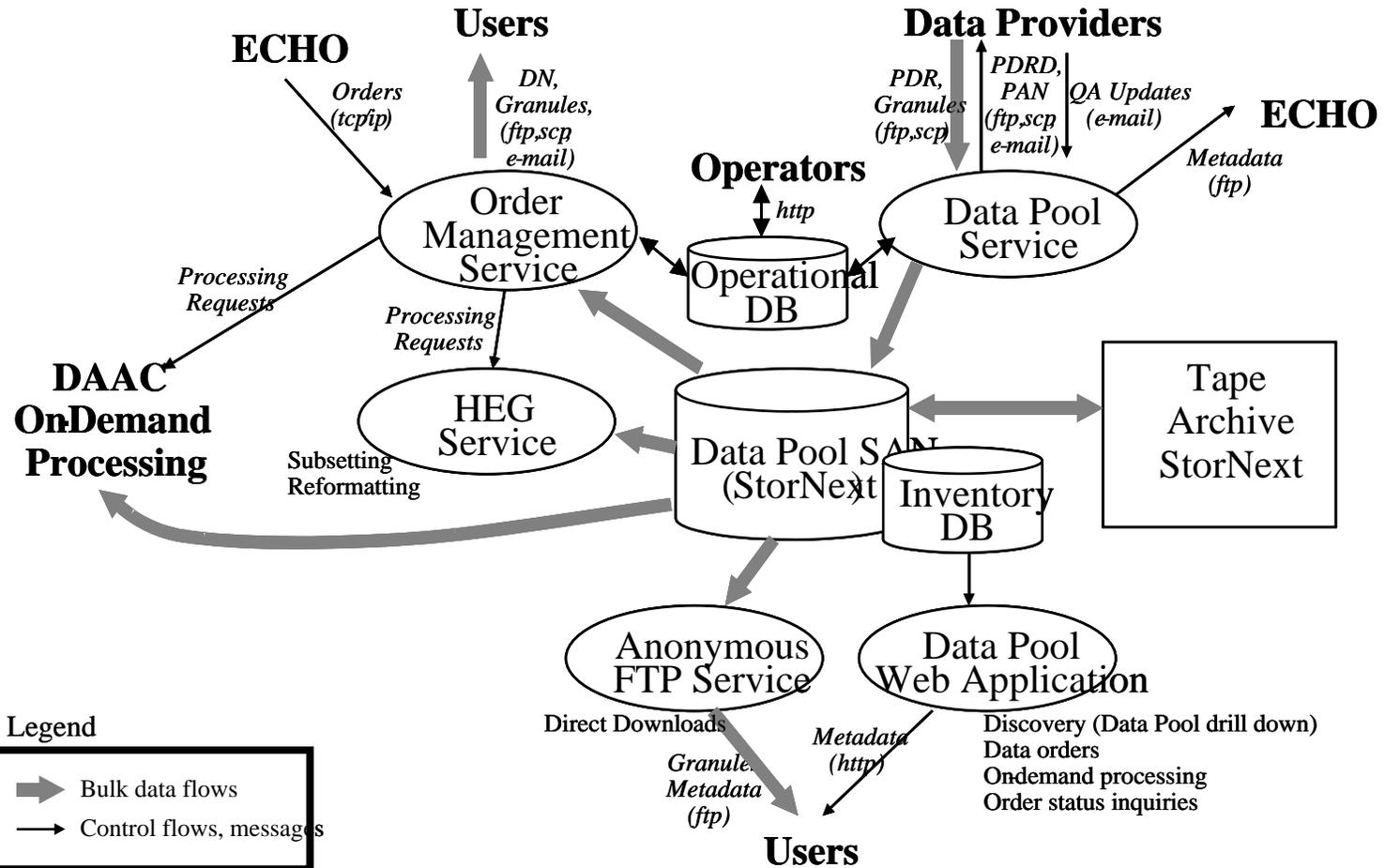
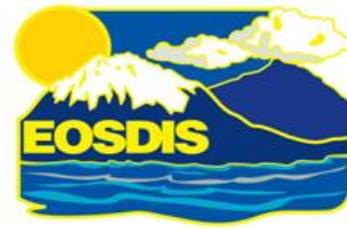
- **SPECIFIC (Cont.):**
  - **Perform the steps involved in**
    - **modifying external data provider information**
    - **modifying Ingest Subsystem parameters using the Data Pool Ingest GUI Operator Tools**
    - **troubleshooting and recovering from ingest problems**

# Objectives (Cont.)

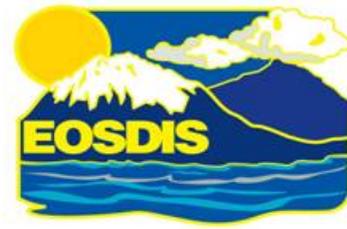


- **STANDARDS:**
  - Lesson content (procedures in the lesson)
  - Mission Operation Procedures for the EMD Project (611-EMD-001)

# Ingest Context Diagram



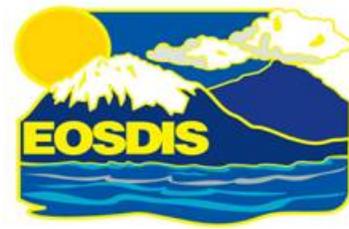
# Ingest Context (Cont.)



- **Context (Cont.)**

- **Data Pool Ingest Subsystem is point of entry to the system for data from external data providers**
- **The Order Management Service (OMS):**
  - **Manages all distribution services**
  - **Accepts distribution requests from external interfaces (e.g., ECHO)**
  - **Implements distribution and staging policies as configured by the DAAC**
- **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, as well as a web-based operator interface to manage distribution**
  - **Manages all ingest, staging and archiving services**
  - **Polls for, and processes ingest requests in accordance with ECS Interface Control Documents (ICDs)**

# Ingest Context (Cont.)



- **Context (Cont.)**

- **DPL Ingest Service: (Cont.)**

- **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**
    - **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**
    - **Provides a web-based operator interface to manage ingest, archiving, staging and metadata**

# Ingest Context (Cont.)

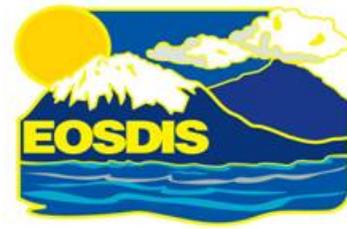


- **Context (Cont.)**

- **The HEG service:**

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

# Ingest Context (Cont.)



- **Context (Cont.)**

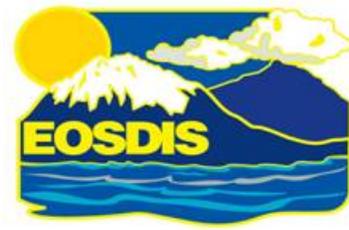
- **Data Pool Storage:**

- 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:**

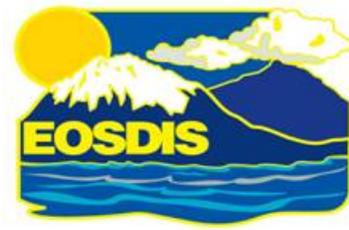
- Provides tape storage for all archived data
    - Accessed only by the DPL Ingest Service during archiving or staging

# Ingest Context (Cont.)



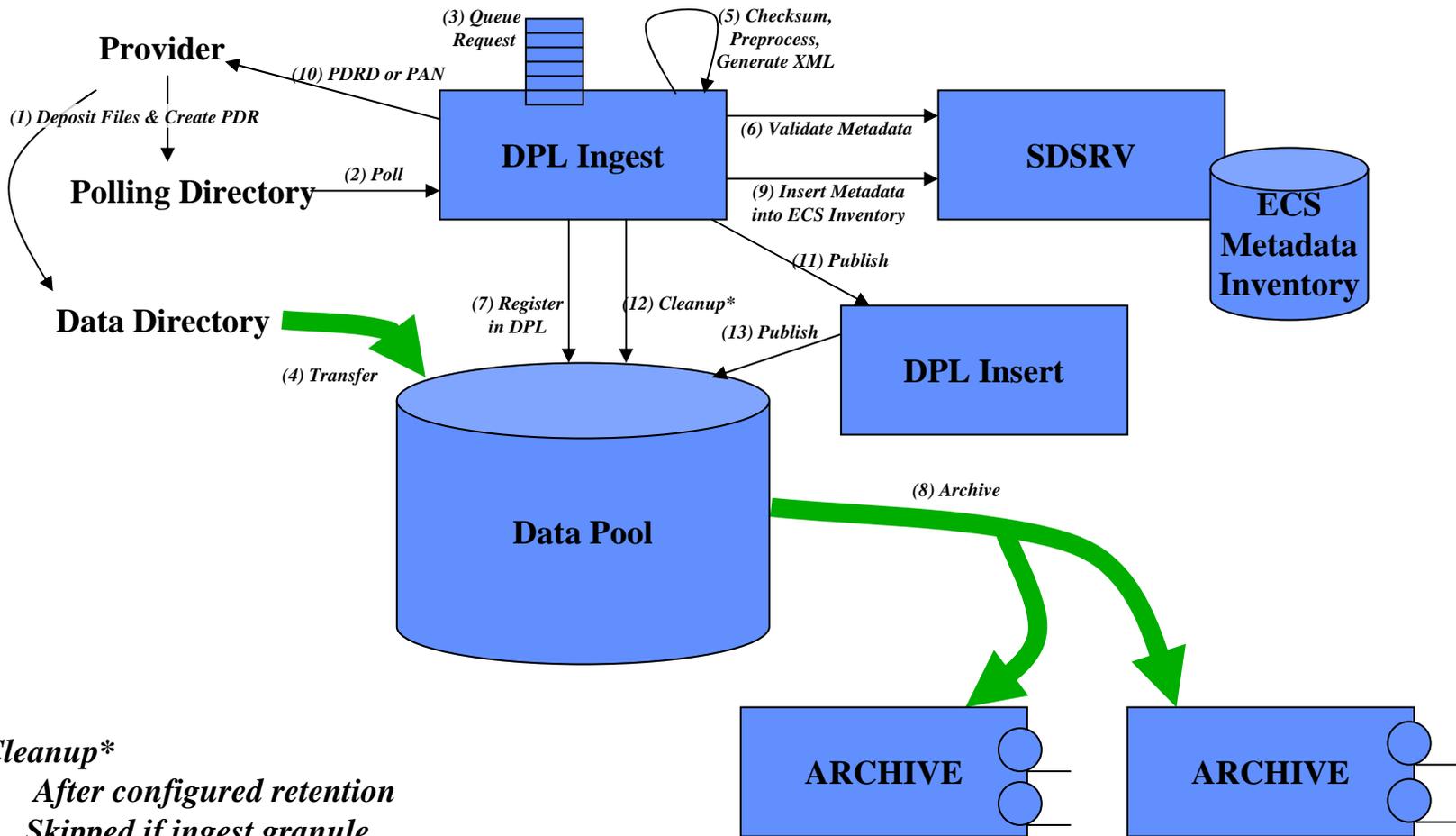
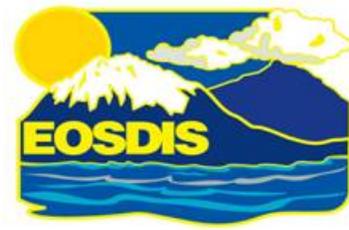
- **Context (Cont.)**
  - **Inventory Database:**
    - Tracks all archived granules
    - Accessible to all platforms
    - Contains a reduced set of metadata (metadata needed only to support Data Pool web) searches and ingest processing
    - Complete metadata for each granule is stored in metadata files in XML and ODL format
    - All metadata files are kept on disk, i.e., they are not archive

# Ingest Context (Cont.)



- **Context (Cont.)**
  - **The Operations Database:**
    - **Accessed by the Order Management Service, Data Pool Service and operator interfaces**
    - **Holds operational data including the state of active requests**
    - **Holds historical information about completed requests**

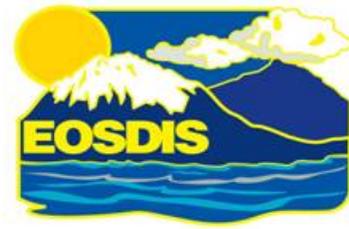
# DPL Ingest Subsystem



## Cleanup\*

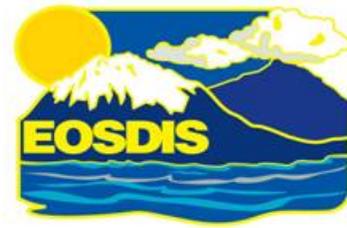
- After configured retention
- Skipped if ingest granule is published

# DPL Ingest Subsystem (Cont.)



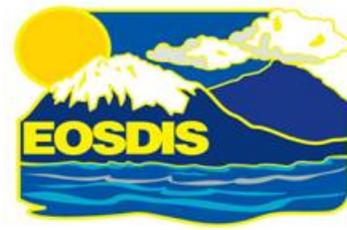
- **The DPL Ingest Subsystem:**
  - The component that the Ingest Technician uses when getting data from external data providers into the system
  - The Ingest Technician has access to Data Pool Ingest through the DPL Ingest GUI
  - Used for SIPS, S4P, Aster, Secure Copy and cross-DAAC ingest
  - Supports the ingest protocol known as ‘Polling with Delivery Record’
  - Inserts the ingested data into the archive and the Data Pool SAN

# DPL Ingest Subsystem (Cont.)



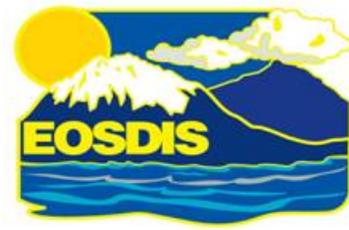
- **DPL Ingest Subsystem (Cont.)**
  - **SIPS providers place their data and Product Delivery Record (PDR) files into a polling directory**
    - The directory can be local, e.g., accessible via a mount point; or remote, i.e., accessible via FTP or Secure Copy (SCP)
  - **The DPL Ingest Service**
    - Polls these directories as configured by the DAAC and retrieves all new PDR files in those directories
    - Queues ingest requests for all PDRs that it finds
    - Checks available resources and DAAC configured priorities
    - Granule files are copied into the Data Pool SAN, using hidden directories for that purpose unless the DAAC requested that the data be published on insert
    - Preprocessing events include checksum verification, translation of .met file to XML

# DPL Ingest Subsystem (Cont.)



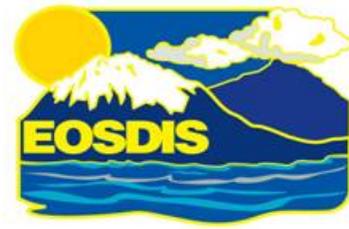
- **Minimal granule metadata is inserted into the Data Pool database**
- **The granules are then copied over to the ECS archive**
  - **This may involve a copy to both a primary and backup archive depending on how the ESDT is configured for archiving**
- **The granule metadata is inserted into the ECS inventory in the SDSRV database**
- **The provider is notified of the outcome, which could be immediately via Product Deliver Discrepancy Report (PDRD) if Product Delivery Record (PDR) validation failed, or later via a short or long Product Acceptance Notification (PAN)**
- **If the ESDT is configured for public Data Pool insert, additional granule metadata is populated in the Data Pool database warehouse tables**

# DPL Ingest GUI



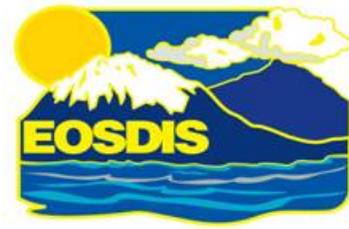
- **DPL Ingest GUI**
  - **Provides capabilities:**
    - **Monitor ingest requests and errors**
    - **Respond to ingest requests for operator intervention and alerts**
    - **Enter configuration information related to providers, polling locations, and the handling of data collections**

# Logging in to System Hosts



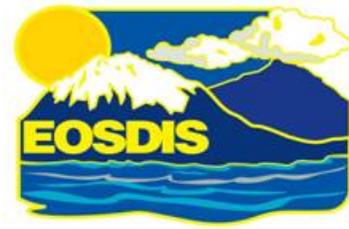
- **Logging in to system hosts is accomplished from a UNIX command line prompt**
  - It is an initial set of steps that is performed when accomplishing many other Ingest tasks
- **Procedure**
  - Access the command shell
  - Set the DISPLAY environmental variable
  - Log in to the specified host using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

# Launching ECS Data Pool Ingest



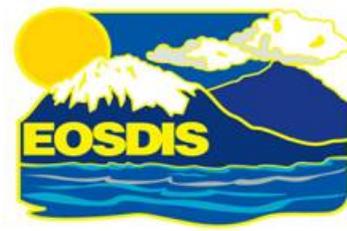
- **Software applications associated with Data Pool Ingest:**
  - **EcDIIInProcessingService**
  - **EcDIIInPollingService**
  - **EcDIIInNotificationService**
- **Normally multiple instances of some Ingest servers**
- **Ingest depends on other servers (Science Data Server and Data Pool Maintenance GUI)**

# Launching Data Pool Ingest (Cont.)



- Procedure (Launching the Data Pool Ingest GUI)
  - Launch **Mozilla Firefox 2.0**
  - Type the **URL** or (retrieve by bookmark) the Data Pool Ingest GUI

# ECS Data Pool Ingest GUI Intro Screen



**DPL Ingest GUI (OPS) - Microsoft Internet Explorer**

Address: <http://f4dp101.hitc.com:25000/Ingest/faces/EcdInGuiLogin.jsp;jsessionid=74798B0F4F178E75001728>

## DATA POOL INGEST web GUI

- Home
- Monitoring
  - Request Status
  - Historical Requests
  - Provider Status
  - File System Status
  - Transfer Host Status
  - ECS Service Status
- Interventions & Alerts
  - Interventions
  - Alerts
- Configuration
  - Providers
  - Data Typess
  - Transfer Hosts
  - File Systems
  - ECS Services
  - Global Tuning
  - Volume Groups
  - Operators
- Reports
  - Detailed
  - Request Summary
  - Granule Summary
  - Volume Groups His
- Help
  - General Topics
  - Context Help
  - About

### General System Statistics

Total Volume Of Data Queued: 0.000 MB  
Total Volume Of Data In Processing: 0.000 MB  
Total Ingest Requests Queued: 0  
Total Ingest Requests In Processing: 0  
Total Granules Queued: 0  
Total Granules In Processing: 0

You can also see these system statistics by Data Provider in the [Provider Status](#) page

Num. Suspended Archive File Systems: 0  
Num. Suspended Data Pool File Systems: 0  
Num. Suspended ECS Services: 0

! There are 2 system alerts. You can view all system alerts at any time by displaying the [System Alerts](#) page.

Error on page. Local intranet

**DPL Ingest GUI (OPS) - Microsoft Internet Explorer**

Address: <http://f4dp101.hitc.com:25000/Ingest/faces/EcdInGuiLogin.jsp;jsessionid=74798B0F4F178E75001728>

Num. Suspended Archive File Systems: 0  
Num. Suspended Data Pool File Systems: 0  
Num. Suspended ECS Services: 0

! There are 2 system alerts. You can view all system alerts at any time by displaying the [System Alerts](#) page.

### DPL Ingest Status

General Ingest Status:  active  Suspend

Email Service Status:  active  Suspend

### Service Status

Notification Service Status: this service is UP

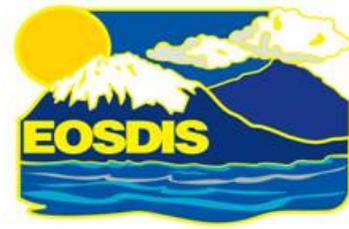
Polling Service Status: this service is UP

Processing Service Status: this service is UP

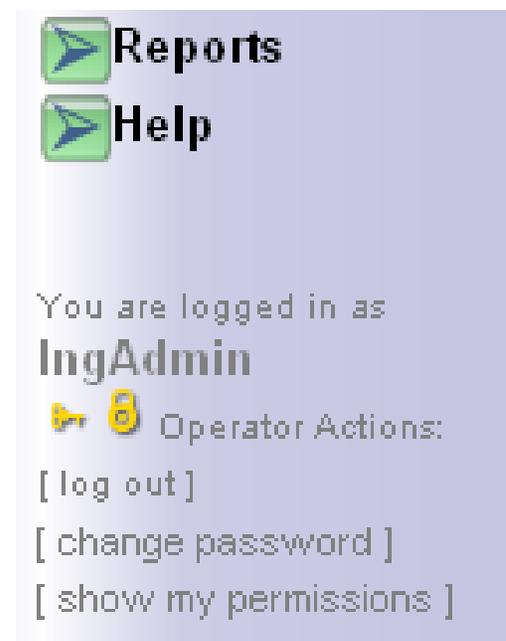
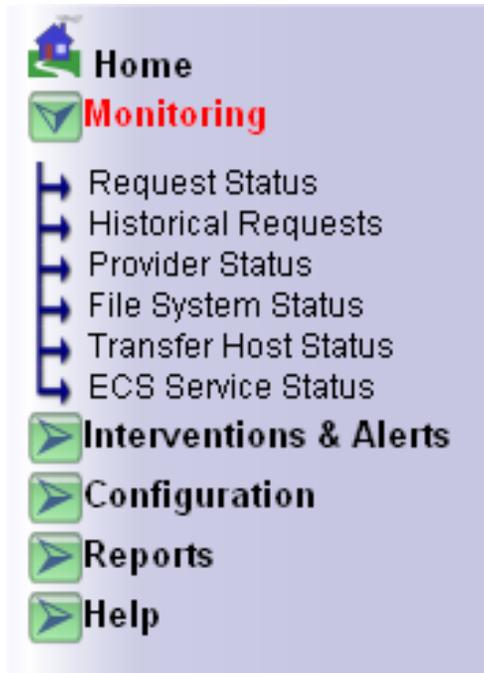
Auto Refresh: OFF

Error on page. Local intranet

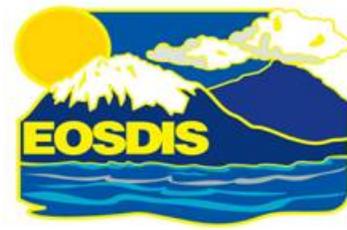
# ECS Data Pool Ingest GUI - Home



- The Home page is divided into four sections
  - The **Navigation** panel is located in the left pane and contains menus that allow the operator monitor/control requests
  - Login information, password access and permissions



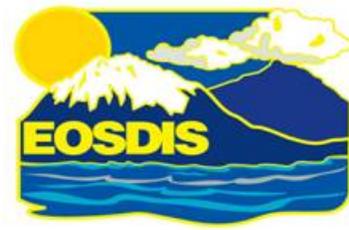
# ECS Data Pool Ingest GUI – Home (Cont.)



- **The Home page is divided into four sections**
  - **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

# ECS Data Pool Ingest GUI – Home (Cont.)



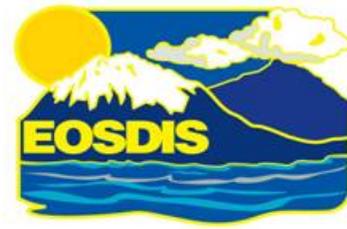
- The Home page is divided into four sections (cont)
  - The **DPL Ingest Status** section consists of two buttons that enable the user to halt various actions throughout the data pool ingest system
    - **General Ingest Status** button stops polling from all polling locations and prevents any new granules from being activated



- **Email Service Status** stops any further email notifications

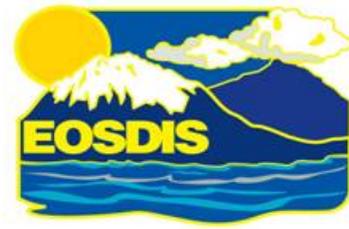


# ECS Data Pool Ingest GUI – Home (Cont.)



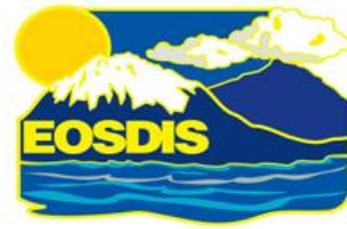
- The Home page is divided into four sections (Cont.)
  - The **Service Status** section provides the status of the three primary services that make up the Data Pool Ingest system
    - **Notification Service Status** - If suspended, no notifications will be sent, but a queue of notifications will be collected and distributed once the service is restarted (not done via the DPL Ingest GUI)
    - **Polling Service Status** - If suspended, PDRs will not arrive from any configured polling location, but any PDRs that remain in the directories will be added once the service is restarted (not done via the DPL Ingest GUI)
    - **Processing Service Status** - If suspended, no actions on any requests or granules will start, continue, or complete. Granules will “hang” in whatever state they are in (not done via the DPL Ingest GUI)

# Monitoring Data Pool Ingest



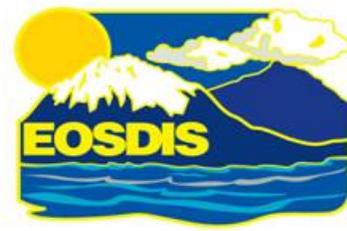
- **The following Data Pool Ingest Statuses can be monitored:**
  - **Requests Status**
  - **Historical Requests**
  - **Provider Status**
  - **File System Status**
  - **Transfer Host Status**
  - **ECS Service Status**

# Monitoring - Ingest Request Status



- 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 the 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



- **Procedure**

- **Select the DPL Ingest GUI Monitoring link**
- **Select the Requests Status link**
- **Click on one of the Request ID's**
  - **Displays detailed information about the request**

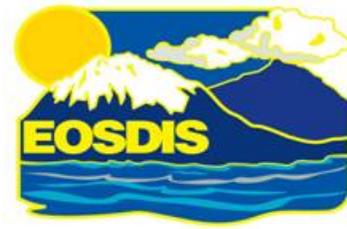
A screenshot of the DPL Ingest GUI (OPS) in a Mozilla Firefox browser window. The browser title is 'DPL Ingest GUI (OPS) - Mozilla Firefox'. The address bar shows the URL: 'http://f4dpl01:22500/Ingest/faces/EcdInGulLogin.jsp;jsessionid=8C6088762AD9983417DEC5C13531CD4'. The page title is 'DataPoolingIngestGUI'. The date and time are 'Thu Oct 26 2006 13:49:19'. The main content area is titled 'Ingest Requests' and contains a table with the following data:

<input type="checkbox"/>	Request ID	Status	Priority	Provider Name	Size [MB]	Granules	Granules Completed Processing	When Queued	Last Update
<input type="checkbox"/>	14671	Validated	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:13	2006-10-26 12:27:13
<input type="checkbox"/>	14670	Validated	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:13	2006-10-26 12:27:13
<input type="checkbox"/>	14669	Validated	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:12	2006-10-26 12:27:13
<input type="checkbox"/>	14668	Active	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:11	2006-10-26 12:27:26
<input type="checkbox"/>	14667	Active	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:11	2006-10-26 12:27:38
<input type="checkbox"/>	14666	Validated	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:13	2006-10-26 12:27:13
<input type="checkbox"/>	14665	Active	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:13	2006-10-26 12:27:40
<input type="checkbox"/>	14664	Active	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:13	2006-10-26 12:27:31
<input type="checkbox"/>	14663	Active	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:13	2006-10-26 12:27:32
<input type="checkbox"/>	14662	Validated	HIGH	MODAPS_TERRA_FPROC	12.293	2	0	2006-10-26 12:27:23	2006-10-26 12:27:23

Below the table are buttons for 'Cancel Requests', 'Suspend Requests', 'Resume Requests', and 'Change Priority'. At the bottom, there is an 'Auto Refresh' section with a dropdown menu set to 'OFF' and options for 'off', '20s', '30s', '1m', '5m', '10m', '15m', and '30m'.

# Monitoring - Ingest Request Status

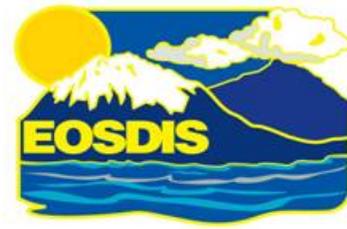
## Page Field Descriptions



<b>Field Name</b>	<b>Description</b>
Request ID	Unique ID for an ingest request
Status	Status of the request (see Table 3 for list of possible statuses)
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

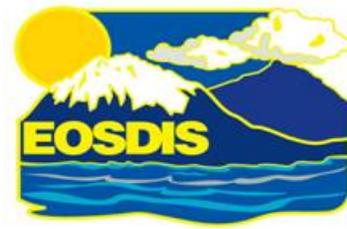
# Monitoring - Ingest Request Status

## Page Field Descriptions



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

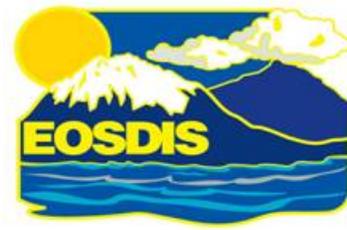
# Monitoring - Changing Request Status Filters



- Procedure
  - Select the DPL Ingest GUI **Monitoring** link
  - Select the **Requests Status** link
  - Select the **Show/Hide Filters** button

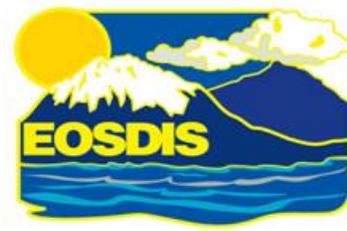
The screenshot shows a dialog box titled "Show / Hide Filters" with a magnifying glass icon and a "[HELP]" link. The dialog is divided into two tabs: "Criteria Based Filtering" (selected) and "Filter By Request ID". Under "Criteria Based Filtering", there are several sections: "Data Providers" with a dropdown menu set to "MODAPS\_TERRA\_FPROC"; "Request Detail Criteria" with a "Request States" dropdown menu showing "Validated" and "Active" options; "Target Archives" with a dropdown menu showing "amfs1", "snfs1", and "browfs"; and "Date Range Criteria" with a "Last Updated" dropdown menu. Below these sections are "FROM" and "TO" date pickers, each with fields for month, day, year, hour, and minute. At the bottom, there is a checkbox for "Save As Default Settings" and two buttons: "Apply Filter" and "Load Default Settings".

# Monitoring - Changing Request Status Filters (Cont.)



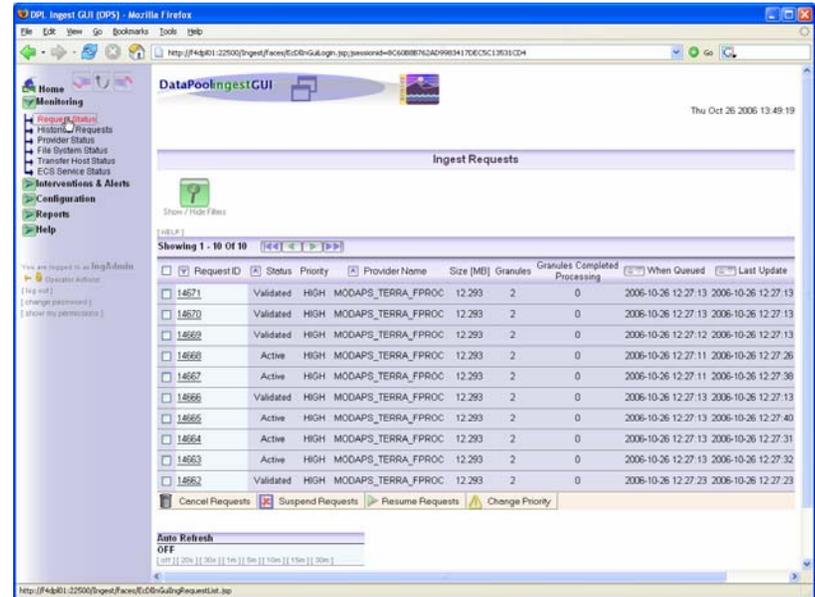
- **Criteria Based Filtering**
  - Allows filtering the attributes of various requests
  - If you want to filter a single granule ID select Filter By Request ID
- **Filter by Data Provider**
- **Filter by Request State criteria**
  - Selection of this state forces the filter for the Request Detail Criteria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

# Monitoring – Resume, Suspend, Change Priority Of Ingest Requests

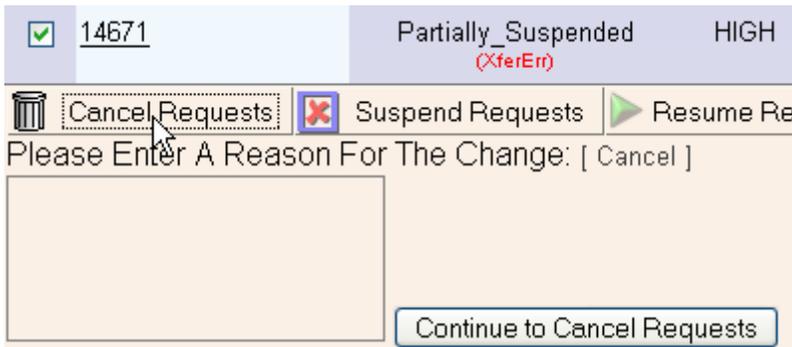


## • Procedure

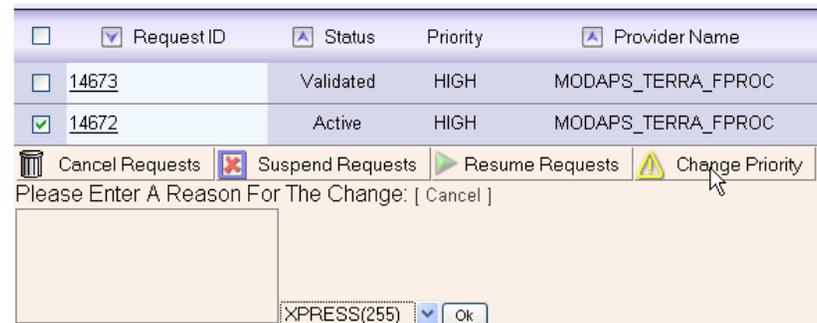
- Click on the box corresponding to the request to be resumed
- Click on the **Resume**, **Suspend** or **Change Priority** button
- Enter the Reason for the change
- Click on the OK button



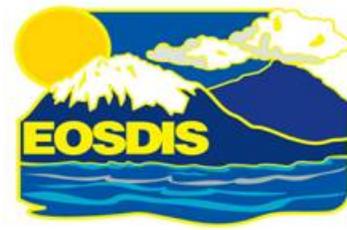
### Cancel/Resume



### Change Priority



# Monitoring - Ingest Request Detailed Status



[Home](#)
  
[Monitoring](#)

- Request Status
- Historical Requests
- Provider Status
- File System Status
- Transfer Host Status
- ECS Service Status

[Interventions & Alerts](#)

- Interventions
- Alerts

[Configuration](#)
  
[Reports](#)
  
[Help](#)

You are logged in as **IngAdmin**

Operator Actions:

- [ log out ]
- [ change password ]
- [ show my permissions ]



Thu Oct 26 2006 16:48:13

### Ingest Request Detail

**Request Info** [ Show / Hide ]

<b>Request ID:</b> 12881	<b>Status:</b> Suspended	<b>Priority:</b> XPRESS
<b>Polling Location:</b> Polling_JPL	<b>Mission:</b>	<b>Size:</b> 12.293 MB
<b>Data Provider:</b> JPL	<b>Open Intervention:</b> <a href="#">view details</a>	

**PDR Path and file name:** /datapool/DEV02/user/FS1//pdrs/161/47/Criteria\_1420\_MOD\_r1\_1161895817\_2072\_RGEN.PDR

**Last Update:** 2006-10-26 16:50:50  
**When Queued:** 2006-10-26 16:50:29  
**When Activated:** 2006-10-26 16:50:31  
**When Completed:**  
**Expiration Date/Time:** 2010-12-31 18:59:59

#### Granule Statistics:

Total Granules	Granules Preprocessed	Granules Inserted	Granules Transferred	Granules Archived	No. Files
2	0%	0%	0%	0%	4

**Status Change History**

Status Changed to New	2006-10-26 16:50:18
Status Changed to Validated	2006-10-26 16:50:29
Status Changed to Active	2006-10-26 16:50:31
Status Changed to Partially_Suspended	2006-10-26 16:50:36
Status Changed to Suspended	2006-10-26 16:50:50

**Request Notes**

*There are no Request Notes for this request.*

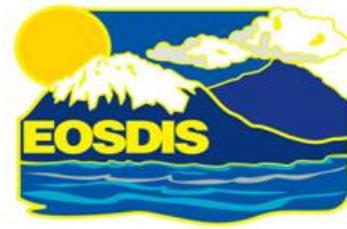
[\[ Add annotation... \]](#)

Retry Selected Granules
 Retry Selected Granules From Start
 Fail Selected Granules
 Cancel Selected Granules

Showing 1 - 2 of 2

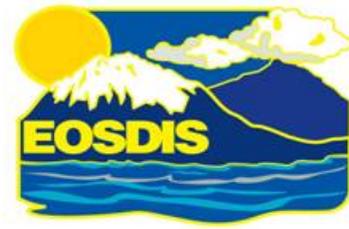
<input type="checkbox"/>	File Detail	Seq. Number	Ingest Gran. ID	Data Type	Version	Status	Granule Size (MB)	No. Files	Last Status Change
<input checked="" type="checkbox"/>	<a href="#">[show/hide]</a>	1	10000000019387	MOD29P1D	86	Suspended Metadata validation failed with error: Metadata validation failed with reason: Failure reason: Error obtaining INVENTORYMETADATA from the descriptor	6.148	2	2006-10-26 16:50:36
<input type="checkbox"/>	<a href="#">[show/hide]</a>	2	10000000019388	MOD29P1D	86	Successful	6.144	2	2006-10-26 16:50:49

# Monitoring - Ingest Request Detailed Status (Cont.)



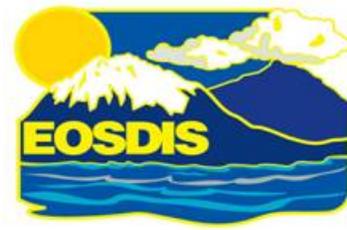
- Any granule(s) encountering problems during any point in their processing are initially flagged as “suspended”
- The following actions may be performed on granules that have been initially suspended:
  - **Retry Selected Granules:** This applies only to granules that are currently suspended
  - **Retry 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, marking 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.)

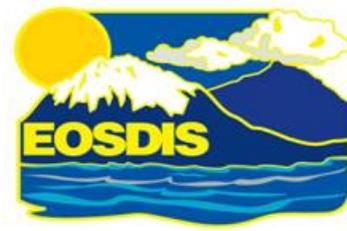


- Procedure
  - Select the DPL Ingest GUI **Monitoring** link
  - Select the **Historical Requests** link
  - Select the **Show/Hide Filters** button

A screenshot of the DPL Ingest GUI (Data Pooling Ingest GUI) in Mozilla Firefox. The browser address bar shows the URL: http://f4dpl01:22500/Ingest\_DEV01/faces/EcDInGuiLogin.jsp. The page title is "DataPoolingIngestGUI". The left sidebar contains a navigation menu with "Monitoring" expanded, showing sub-links for "Request Status", "Historical Requests", "Provider Status", "File System Status", "Transfer Host Status", and "ECS Service Status". Below the sidebar, the main content area is titled "Historical Ingest Requests" and includes a "Show / Hide Filters" button. A table displays a list of requests with columns for RequestId, Status, Priority, Provider Name, Size, No. Granules (no. Successful), Ingest Method, When Queued, When Proc. Started, and When Processing Completed. The table shows 6 rows of data, with the first five rows having a status of "Successful" and the last row having a status of "Cancelled".

RequestId	Status	Priority	Provider Name	Size	No. Granules (no. Successful)	Ingest Method	When Queued	When Proc. Started	When Processing Completed
19271	Successful	NORMAL	JPL	24.697	1(1)	DPL	2006-10-27 11:43:10	2006-10-27 11:43:13	2006-10-27 11:43:32
19270	Successful	VHIGH	S4P00	24.697	1(1)	DPL	2006-10-27 11:43:09	2006-10-27 11:43:11	2006-10-27 11:43:28
19266	Successful	VHIGH	S4P00	6.128	1(1)	DPL	2006-10-27 11:35:06	2006-10-27 11:37:10	2006-10-27 11:37:32
19264	Partially Cancelled (XferErr)	VHIGH	S4P00	12.293	2(0)	DPL	2006-10-27 11:19:14	2006-10-27 11:22:25	
19256	Cancelled	VHIGH	S4P00	6.311	1(0)	DPL	2006-10-27 11:09:05	2006-10-27 11:09:25	2006-10-27 11:24:06
19258	Cancelled	VHIGH	S4P00	6.311	1(0)	DPL	2006-10-27 11:09:05	2006-10-27 11:09:23	2006-10-27 11:24:06

# Monitoring - Historical Requests Details



DPL Ingest GUI (OPS) - Mozilla Firefox

http://f4dpl01:22500/Ingest/faces/EcDInGulLogin.jsp

### Historical Ingest Request Detail for RequestId 14859

**Request Info** [ Show / Hide ]

<b>RequestID:</b> 14859	<b>Status:</b> Partially_Cancelled	<b>Priority:</b> HIGH
<b>Provider:</b> MODAPS_TERRA_FPROC	<b>Size:</b> 0.261 MB	<b>No. Granules:</b> 2 (1 successful)
<b>Ingest Method:</b> DPL		<b>No. Files:</b> 3

**When Queued:** 2006-10-27 12:13:26  
**When Processing Started:** 2006-10-27 12:22:20  
**When Processing Ended:**

**Request Timings**

Time To Xfer	Time To Checksum	Time To Preprocess	Time To DPL Insert	Time To Archive
4	1	30	0	1

**Status Change History**

Status Changed to New	2006-10-27 12:13:19
Status Changed to Validated	2006-10-27 12:13:26
Status Changed to Active	2006-10-27 12:22:20
Status Changed to Partially_Suspended	2006-10-27 12:22:46
Status Changed to Suspended	2006-10-27 12:22:46

**Request Notes**

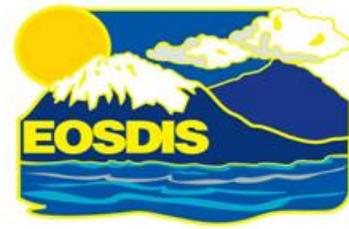
Added 2006-10-27 12:45:49 by  
 Changed status to Cancelling. Reason: not supplied.

**Granule List** Showing 1 - 2 Of 2

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	10000000008784	33198	54734	MOD29P1N	86	Successful	0.111	2	2006-10-27 12:22:20.73	2006-10-27 12:22:34.76	14 s	1	
1	10000000008785	33196	54742	Browse	1	Cancelled	0.150	1	2006-10-27 12:22:20.93	2006-10-27 12:46:02.643	1421 s		

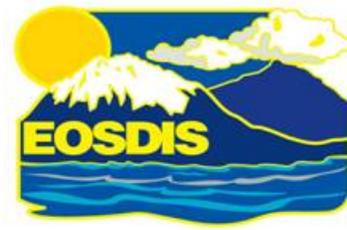
Done

# Monitoring – Provider Status



- **The Provider Status link provides access to the status and information about each configured data provider in the ingest system**
  - **A List of all configured providers along 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 (ie 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**

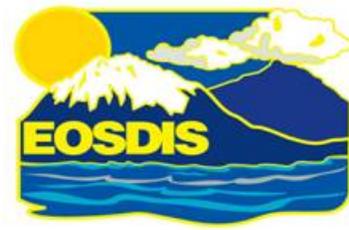
# Monitoring – Provider Status (Cont.)



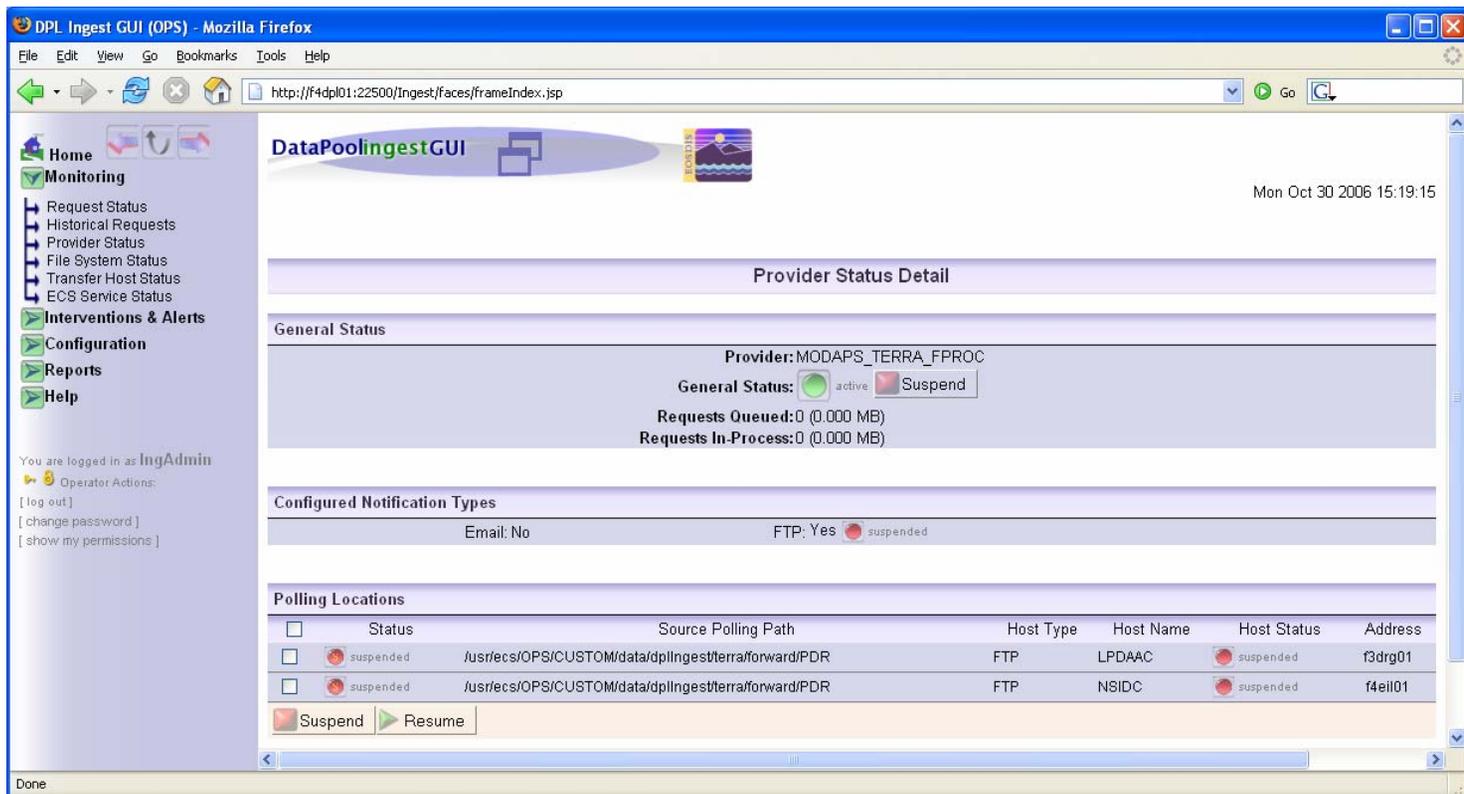
- Procedure
  - Select the DPL Ingest GUI **Monitoring** link
  - Select the **Provider Status** link

The screenshot shows a web browser window titled 'DPL Ingest GUI (DEV01) - Mozilla Firefox'. The address bar shows 'http://f4dpl01:22500/Ingest'. The page content includes a navigation menu on the left with options like 'Home', 'Monitoring', 'Interventions &amp; Alerts', 'Configuration', 'Reports', and 'Help'. The main content area is titled 'Provider Status' and contains a table with columns for Provider, Status, Polling Locations, Requests Queued, Requests In-Process, Granules Queued, and Granules In-Process. The table lists various providers such as AMSR\_E\_SIPS, ASTER\_OSF, DDISIT, ICESAT, JPL, MODAPS\_AQUA\_FPROC, MODAPS\_COMBINE\_FPROC, MODAPS\_TERRA\_FPROC, NSIDC\_DAAC, and S4POD. A 'TOTALS' row is at the bottom of the table. Below the table are 'Suspend' and 'Resume' buttons. The browser's status bar at the bottom shows the URL 'http://f4dpl01:22500/Ingest\_DEV01/faces/EcDInGUiProviderStatus.jsp'.

# Monitoring – Provider Status Detail



- Procedure
  - Click on any **Provider ID**



The screenshot displays the DPL Ingest GUI (OP5) in Mozilla Firefox. The browser address bar shows the URL: `http://f4dpl01:22500/Ingest/faces/frameIndex.jsp`. The page title is "DataPoolingIngestGUI". The date and time displayed are "Mon Oct 30 2006 15:19:15".

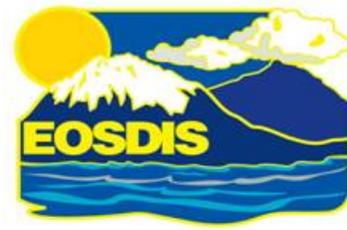
The main content area is titled "Provider Status Detail". It shows the following information:

- General Status**
  - Provider: MODAPS\_TERRA\_FPROC
  - General Status:  active  Suspend
  - Requests Queued: 0 (0.000 MB)
  - Requests In-Process: 0 (0.000 MB)
- Configured Notification Types**
  - Email: No
  - FTP: Yes  suspended
- Polling Locations**

<input type="checkbox"/>	Status	Source Polling Path	Host Type	Host Name	Host Status	Address
<input type="checkbox"/>	<input checked="" type="radio"/> suspended	/usr/ecs/OPS/CUSTOM/data/dplIngest/terra/forward/PDR	FTP	LPDAAC	<input checked="" type="radio"/> suspended	f3drg01
<input type="checkbox"/>	<input checked="" type="radio"/> suspended	/usr/ecs/OPS/CUSTOM/data/dplIngest/terra/forward/PDR	FTP	NSIDC	<input checked="" type="radio"/> suspended	f4eil01

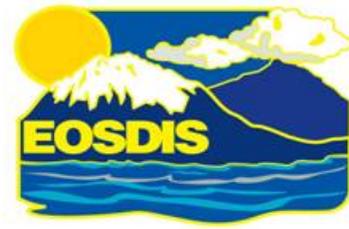
At the bottom of the polling locations section, there are buttons for **Suspend** and **Resume**.

# Monitoring – Suspend/Resume Provider



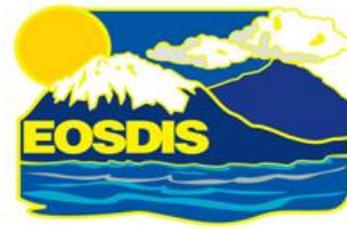
- **A provider may be suspended or resumed from the Provider Status page**
  - **Suspending a Data Provider will stop the activation of Ingest Requests from that Provider**
    - **Ingest Requests that are already active will be completed**
  - **Ingest will also stop polling any of the Polling Locations 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 – Suspend/Resume Polling Location



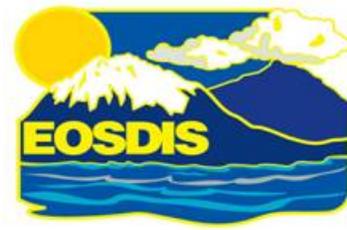
- **A provider may be suspended or resumed from the Provider Status page**
  - **Suspending a Polling Location will stop the activation of Ingest Requests from location**
    - **Ingest Requests that are already active will be completed**
  - **Resuming a Polling Location will activate Ingest Requests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

# Monitoring – File System Status

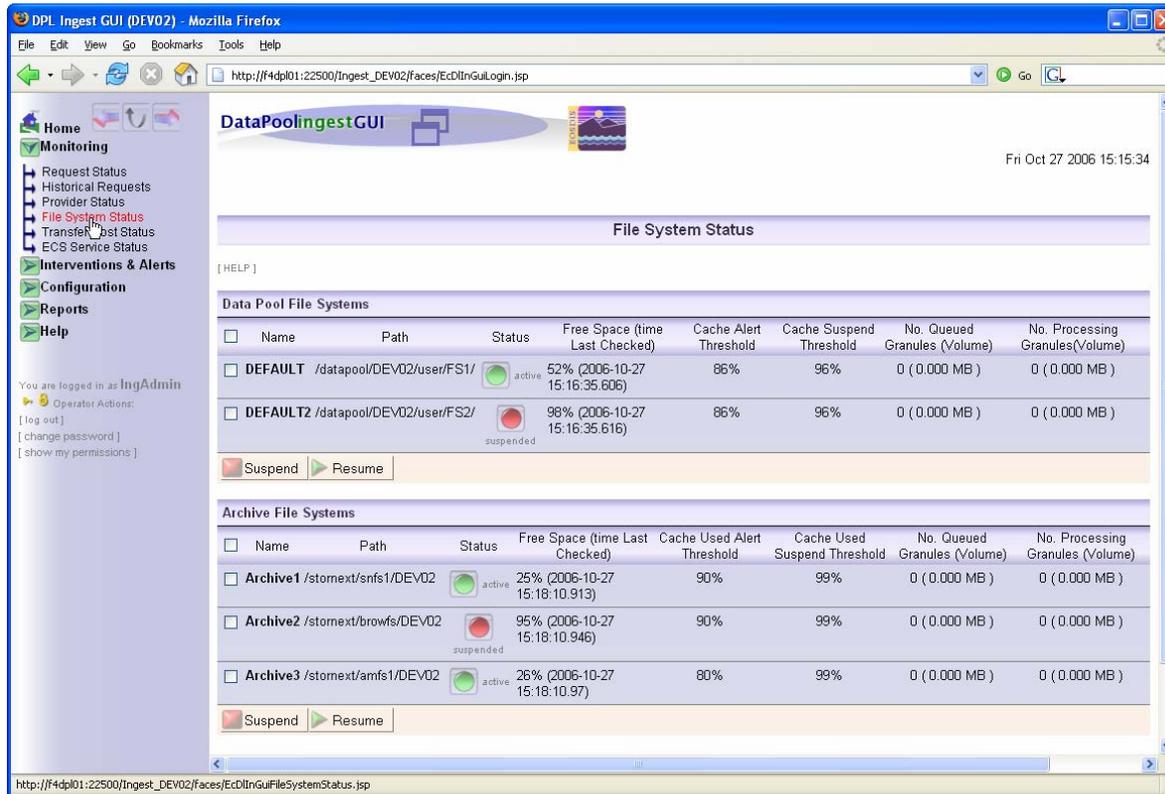


- The **File System Status** page displays the following information on the **Data Pool Archive File Systems** and **Data Pool File Systems**:
  - Name(s) and directory paths for Archive and Data Pool File Systems
  - Provides the statuses of the Archive and Data Pool File Systems
    - Active, Suspended 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** link
  - Select the **File System Status** link



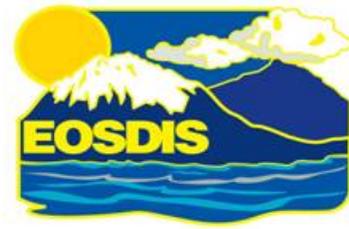
The screenshot displays the DPL Ingest GUI (DEV02) in Mozilla Firefox. The main content area shows the 'File System Status' section, which includes a table of file systems. The table is divided into two sections: 'Data Pool File Systems' and 'Archive File Systems'. Each row in the table provides details such as Name, Path, Status, Free Space (time Last Checked), Cache Alert Threshold, Cache Suspend Threshold, No. Queued Granules (Volume), and No. Processing Granules (Volume). The 'Data Pool File Systems' section shows two entries: 'DEFAULT' (active) and 'DEFAULT2' (suspended). The 'Archive File Systems' section shows three entries: 'Archive1' (active), 'Archive2' (suspended), and 'Archive3' (active). The interface also includes a navigation menu on the left, a user login status, and a help link.

Data Pool File Systems								
<input type="checkbox"/>	Name	Path	Status	Free Space (time Last Checked)	Cache Alert Threshold	Cache Suspend Threshold	No. Queued Granules (Volume)	No. Processing Granules (Volume)
<input type="checkbox"/>	DEFAULT	/datapool/DEV02/user/FS1/	active	52% (2006-10-27 15:16:35.606)	86%	96%	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	DEFAULT2	/datapool/DEV02/user/FS2/	suspended	98% (2006-10-27 15:16:35.616)	86%	96%	0 (0.000 MB)	0 (0.000 MB)

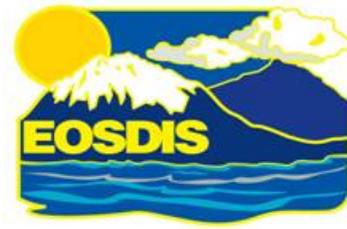
Archive File Systems								
<input type="checkbox"/>	Name	Path	Status	Free Space (time Last Checked)	Cache Used Alert Threshold	Cache Used Suspend Threshold	No. Queued Granules (Volume)	No. Processing Granules (Volume)
<input type="checkbox"/>	Archive1	/stornext/snfs1/DEV02	active	25% (2006-10-27 15:18:10.913)	90%	99%	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	Archive2	/stornext/browfs/DEV02	suspended	95% (2006-10-27 15:18:10.946)	90%	99%	0 (0.000 MB)	0 (0.000 MB)
<input type="checkbox"/>	Archive3	/stornext/amfs1/DEV02	active	26% (2006-10-27 15:18:10.97)	80%	99%	0 (0.000 MB)	0 (0.000 MB)

# Monitoring – Suspend/Resume File Systems



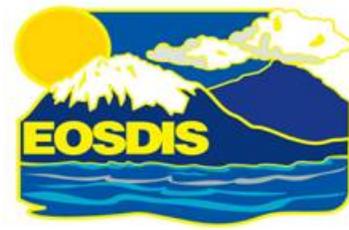
- **Data Pool File System** and **Archive File System** can be suspended or resumed from the **File System Status** page
  - Suspending a File System will prevent the occurrence of any activity on the selected File System
  - Resuming a File System will allow activity on a File System to resume

# Monitoring – Transfer Host Status



- **The Transfer Host Status page shows the status of each configured FTP host and Local Host transfers**
  - These hosts can be suspended or resumed manually
  - These hosts can be suspended or resumed by the Data Pool Ingest service
  - An Undefined host is generated when the system does not recognize the node name contained in the PDR

# Monitoring – Transfer Host Status (Cont.)



- Procedure
  - Select the DPL Ingest GUI **Monitoring** link
  - Select the **Transfer Host Status** link

The screenshot shows the DPL Ingest GUI (DEV09) in a Mozilla Firefox browser window. The interface is divided into several sections. On the left is a navigation menu with options like Home, Monitoring, Interventions & Alerts, Configuration, Reports, and Help. The main content area is titled "Existing FTP Hosts" and contains a table with columns for Host Label, Address, Read Status, Write Status, and Status By Provider. Below this is a section for "Existing SCP Hosts" with a similar table. At the bottom, there is a "Local Host Operations" section with Read and Write status indicators. The browser's address bar shows the URL: http://localhost:8084/INVEST\_GUI/aces/ErC@InG@HostStatus.jsp.

Existing FTP Hosts				
<input type="checkbox"/>	Host Label	Address	Read Status	Write Status
<input type="checkbox"/>	LPDAAC	6drg01.hrc.com		
Status By Provider				
	Provider Name	Read Status	Write Status	
	1KB FTP			
	MODAPS_AQUA_FPROC			
	MODAPS_COMBINE_FPROC			
	MODAPS_TERRA_FPROC			
<input type="checkbox"/>	NSIDC	44ei01		
Status By Provider				
	Provider Name	Read Status	Write Status	
	AMSR_E_SIPS			
	ICESAT			
	MODAPS_AQUA_FPROC			
	MODAPS_TERRA_FPROC			
<input type="checkbox"/>	UNDEFHOST_MODAPS_TERRA_FPROC_44235	origin		
<input type="checkbox"/>	UNDEFHOST_MODAPS_TERRA_FPROC_44521	6drg01		

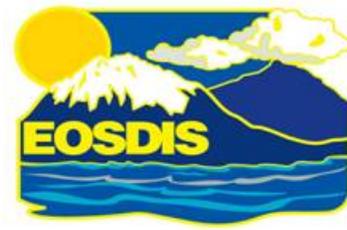
  

Existing SCP Hosts				
<input type="checkbox"/>	Host Label	Address	Read Status	Write Status
<input type="checkbox"/>	44dp01	44dp01		
<input type="checkbox"/>	44sp01	44sp01		

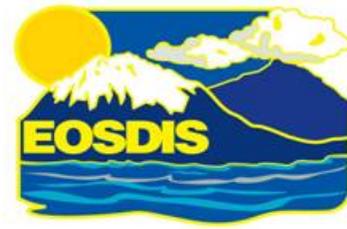
Local Host Operations	
Read Status:	Write Status:

# Monitoring – Transfer Host Status (Cont.)



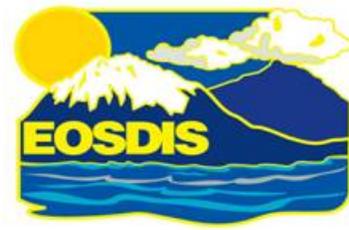
Field Name	Description
Host Label	Label assigned to the host on which the polling location is found
Address	The I.P. address or the canonical name and port number of the host
Read Status	Whether or not read actions (such as <a href="#">polling location listings</a> ) are active, suspended by operator, or suspended by server on the host
Write Status	Whether or not write actions (such as <a href="#">transferring notifications</a> ) are active or suspended on the host
Status by Provider: Provider Name	Name of a provider with a polling location configured on the host
Status by Provider: Read Status	Whether or not read actions are active or suspended for a specific provider
Status by Provider: Write Status	Whether or not write actions are active or suspended for a specific provider

# Monitoring – ECS Service Status



- **Services that can run on any number of hosts that have been configured for that purpose (i.e. checksumming, archiving, and transfers)**
  - The service on each host is independent of the same type of service on the other hosts, in that its configuration and status is host specific
    - For example, checksumming on one host may be suspended but may be operating just fine on the other
- **Some services exist only once and run on the host on which they were installed (i.e. Science Data Server (SDSRV) Service)**
  - The DPL Ingest GUI shows only one configuration and status entry for each of those services
    - These services are called Non-Host Services

# Monitoring – ECS Service Status (Cont.)

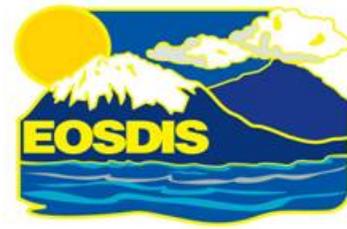


- Procedure
  - Select the DPL Ingest GUI **Monitoring** link
  - Select the **ECS Service Status** link

The screenshot shows a Microsoft Internet Explorer browser window titled "DPL Ingest GUI (DEV01) - Microsoft Internet Explorer". The address bar shows the URL "http://f4dp101.hitc.com:25010/Ingest\_DEV01/faces/frameIndex.jsp". The page content includes a navigation menu on the left with "Monitoring" selected, a main header area with "DATA POOL INGEST web GUI" and a date/time stamp "Fri Apr 13 2007 10:41:0", and a section titled "ECS Services Status". Under "Non-Host Services", there is a status for "SDSRV" which is "active" with a green indicator and a "Suspend" button. Below this is a section for "Hosts Used For ECS Services" with a table of service hosts and their operational status for various protocols.

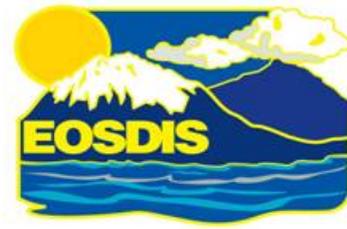
Service Host	Checksum	File Transfer	SCP	Archive	Insert Copy	Insert Checksum
f4ei01	<input type="checkbox"/> active	<input type="checkbox"/> active	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active
f4ri01	<input type="checkbox"/> active	<input type="checkbox"/> active	not enabled	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active
f4he01	<input type="checkbox"/> active	<input type="checkbox"/> active	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active
f4sp01	<input type="checkbox"/> active	<input type="checkbox"/> active	<input checked="" type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active	<input type="checkbox"/> active

# Monitoring – ECS Service Suspend/Resume



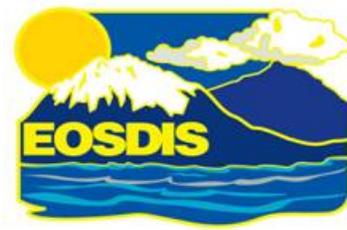
- **Each service can be suspended or resumed**
  - The status columns show a green (active) or red (suspended) icon
- **Non-Host services are not tied to a particular host**
  - These services can be suspended or resumed by simply clicking on the button next to the indicated service status
    - Suspending a service on a host specific location, will let all service operations of that type that are currently executing on that host complete
    - No new requests for that service will be dispatched to that host

# Interventions & Alerts



- The **Interventions & Alerts** link provides the operator access to Ingest Requests with open interventions
  - The operator may select any eligible request and either cancel the request(s) or resume the request(s)
- The **Interventions & Alerts** link displays Data Pool System Alerts as they are raised in the DPL database
  - These warn the operator when the Ingest Service runs into a problem that it believes is 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 if that is the case
  - An alert may also be cleared manually once the operator determined that the problem has been resolved
  - An operator might do that to avoid waiting until the next auto-retry of the resource

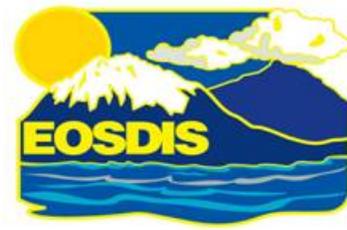
# Open Intervention- Ingest Requests Management



- Procedure
  - Select the **Interventions and Alerts** link
  - Select the **Interventions** link
- **Open Intervention Management**
  - Request ID
  - Provider
  - Intervention Type
  - Worker
  - When Created
  - When Acknowledged
  - Cancel Requests
  - Resume Requests

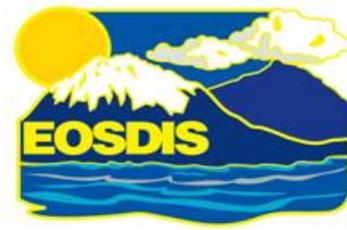
The screenshot shows a web application window titled 'EMI Ingest GUI (DEV01) - Mozilla Firefox'. The main content area is titled 'DATA POOL INGEST' and 'Open Interventions'. Below this, there is a section for 'Open Intervention Management' showing a table with one row of data. The table has columns for 'Request ID', 'Provider', 'Intervention Type', 'Worker', 'When Created', and 'When Acknowledged'. Below the table are buttons for 'Cancel Requests' and 'Resume Requests'. There is also a section for 'Intervention Related Configuration' with a table of parameters and their values, and an 'Apply Changes' button. At the bottom, there is an 'Auto Refresh' section with a dropdown menu set to 'Off'.

# Open Intervention- Ingest Requests Management (Cont.)

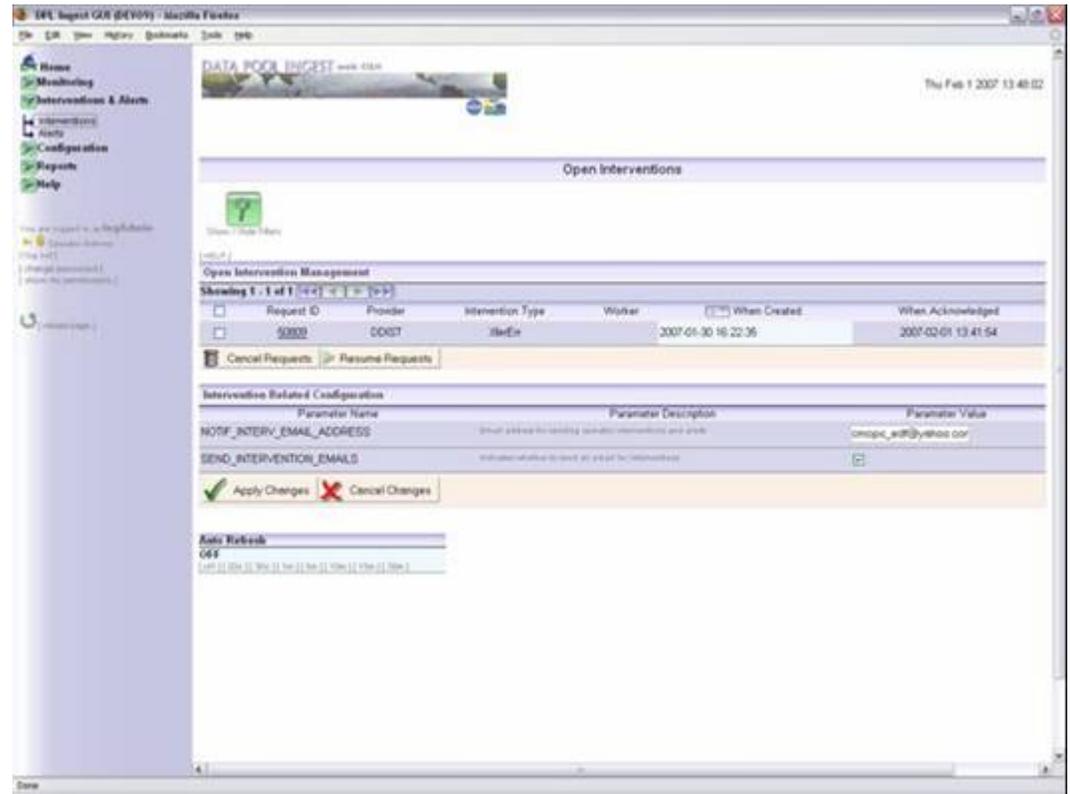


Field Name	Description
Request ID	Unique Data Pool Ingest identifier assigned to the request in intervention
Provider	Name of the provider from which the request was obtained
Intervention Type	Type of error encountered during processing of at least one of the request granules (if there are multiple error 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

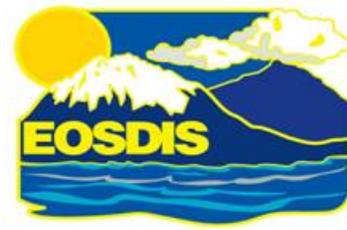
# Open Intervention- Intervention Related Configuration



- Procedure
  - Select the **Interventions and Alerts** link
  - Select the **Interventions** link
- Open Intervention Management
  - Parameter Name
  - Parameter Description
  - Parameter Value
  - Apply Changes
  - Cancel Changes

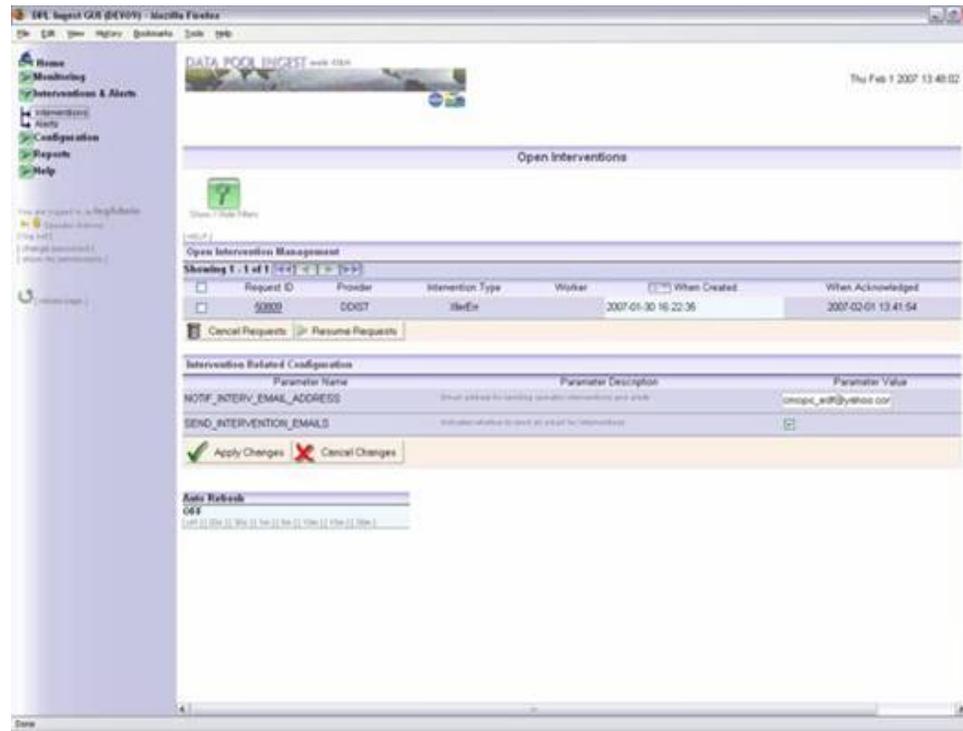


# Open Intervention- Change E-Mail Configuration

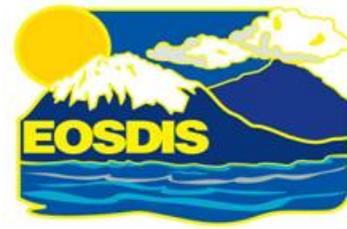


- Procedure

- Enter the e- mail address in the **NOTIFY\_INTERV\_EMAIL\_ADDRESS**
- Click on **SEND\_INTERVENTION\_EMAIL** field
- Click on **Apply Changes** button

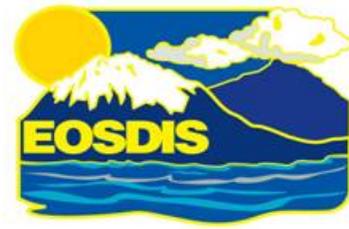


# Open Intervention- Cancel/Resume Request



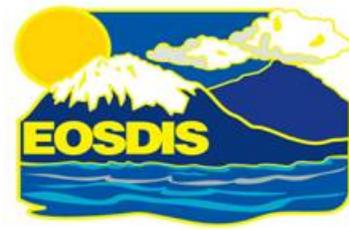
- **Procedure**
  - In the **Open Intervention Management** section click on the box next to the request to be resumed/cancelled
  - Click on the **Resume** button
    - Processing for all granules currently suspended will be resumed
    - or
  - Click on the **Cancel** button
    - Processing for all granules will be terminated
    - This action is irreversible

# Open Intervention- Detailed Page



- The **Interventions Detail** page is the operator's link to taking action on specific granules that have been intervened
  - In the **Open Intervention Management** section click on the box next to 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) along with detailed information is displayed at the bottom of the page
  - 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

# Open Intervention- Detailed Page (Cont.)



- Procedure
  - Select the **Interventions and Alerts** link
  - Select the **Interventions** link
  - Click on **Request ID**

The screenshot shows the 'Open Intervention Detail' page in the Ingest GUI. The page is titled 'Open Intervention Detail' and contains the following information:

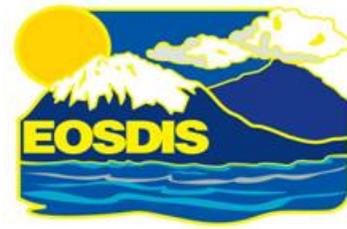
- Intervention Info:** RequestID: 14921, Provider: JPL, Status: Suspended, Priority: NORMAL, Size: 24,506 MB, No. Granules: 4.
- Intervention Type:** MULTIPLE
- Worked By:** James Piro
- Intervention Creation Date Time:** 2006-10-30 11:53:51
- Intervention Acknowledgement Date Time:** 2006-10-30 11:54:58
- When Ordered:** 2006-10-30 11:53:42
- When Processing Started:** 2006-10-30 11:53:44

The 'Operator Notes' section contains two entries:

- Added 2006-10-30 11:56:05 by IngAdmin: Multiple errors encountered during request processing. Assigned to James Piro 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.

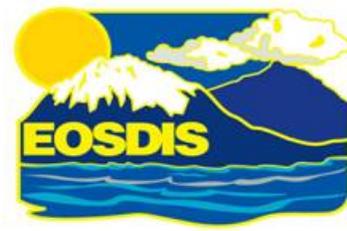
The 'Granule List' section shows a table with 4 granules. The first granule is suspended, and the second is failed. The table columns are File, Seq Number, Ingest Gran. ID, Data Type, Version, Status, Granule Size (MB), and No. Files.| File | Seq Number | Ingest Gran. ID | Data Type | Version | Status | Granule Size (MB) | No. Files |
| --- | --- | --- | --- | --- | --- | --- | --- |
| [Show File] | 1 | 1500000000388 | MCC29P1D | 86 | Suspended (Error) | 6.148 | 2 |
| [Show File] | 3 | 1500000000390 | MCC29P1D | 86 | Successful | 6.148 | 2 |
| [Show File] | 4 | 1500000000391 | MCC29P1D | 86 | Successful | 6.144 | 2 |
| [Show File] | 2 | 1500000000389 | MCC29P1D | 86 | PrepError | 6.144 | 2 |

# Open Intervention- Changing Granule Status



- The **Interventions Detail** page is the operator's link to taking action on specific granules that have been intervened
- A list of granule(s) along with detailed information is displayed at the bottom of the page
  - An Operator Intervention remains open as long as there are suspended granules
  - The operator can take one of several actions to 'close' the intervention
  - The suspended granules can be failed
  - The suspended granules can be retried in one of two ways
    - Retry Granules
      - The granule is retried from the last point of processing
    - Retry Granules From Start
      - The granule is retried from the start of processing, no matter where in the processing chain it failed
  - The suspended granule(s) can be canceled

# Open Intervention- Changing Granule Status (Cont.)



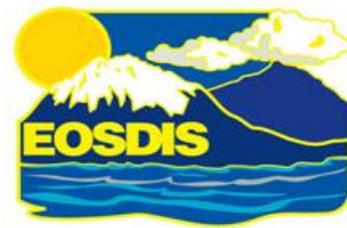
- Procedure

- Select the **Interventions and Alerts** link
- Select the **Interventions** link
- Click on **Request ID**
- Click on the appropriate button
  - **Fail Selected Granules**
  - **Retry Selected Granules**
  - **Retry Selected Granules From the Start**
  - **Cancel Selected Granules**

The screenshot shows a web browser window titled 'DPL Ingest GUI (OPS) - Mozilla Firefox'. The page is 'Open Intervention Detail' for RequestID: 14921. It shows the intervention is 'Suspended' with a size of 24,508 MB. The intervention was created on 2006-10-30 11:53:51 and started processing on 2006-10-30 11:53:44. Operator notes indicate that multiple errors occurred during request processing, leading to the suspension of granules. A table below shows the granule list with columns for File Detail, Seq Number, Ingest Gran. ID, Data Type, Version, Status, Granule Size (MB), and No Files. The table contains four rows of granules, with the first one being 'Suspended' and the others 'Successful'.

File Detail	Seq Number	Ingest Gran. ID	Data Type	Version	Status	Granule Size (MB)	No Files
[jplsvrfile]	1	1500000000398	MCC029P1D	06	Suspended	6.148	2
[jplsvrfile]	3	1500000000390	MCC029P1D	06	Successful	6.148	2
[jplsvrfile]	4	1500000000391	MCC029P1D	06	Successful	6.144	2
[jplsvrfile]	2	1500000000389	MCC029P1D	06	PrepError	6.144	2

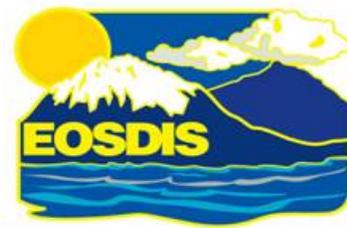
# Alerts – Viewing System Alerts



- Procedure
  - Select the **Interventions and Alerts** link
  - Select the **Alerts** link
- Alert Management
  - Alert Details
  - Alert Description
  - Alert Type
  - Resource
  - Resource Type
  - Creation Time

The screenshot shows the DPL Ingest GUI (DEV09) in a Mozilla Firefox browser window. The page title is "DATA POOL INGEST web GUI" and the date/time is "Thu Feb 1 2007 13:50:40". The left sidebar contains navigation links: Home, Monitoring, Interventions &amp; Alerts (selected), Interventions, Alerts, Configuration, Reports, and Help. Below the sidebar, it indicates the user is logged in as "IngAdmin" with options for "Operator Actions", "log out", "change password", and "show my permissions". The main content area is titled "Alerts" and includes a "Show / Hide Filters" button. Below this is the "Alert Management" section, which contains a table with one alert entry. The table has columns for "Alert Details", "Alert Description", "Alert Type", "Resource", "Resource Type", "Server Name", and "Creation Time". The alert entry is: "Failure to connect with an ECS service" (Alert Description), "SRVC\_CANNOT\_CONNECT" (Alert Type), "HM01" (Resource), "FILE\_TRANSFER Processing" (Resource Type), and "2007-01-30 16:21:54" (Creation Time). Below the table is a "Close Alerts" button. The "Alert Related Configuration" section contains a table with columns for "Parameter Name", "Parameter Description", and "Parameter Value". The parameters are: "ALERT\_EMAIL\_ADDRESS" (Email address to which alert emails will be sent) with value "cmops\_edf@yahoo.com"; and "SEND\_ALERT\_EMAILS" (Indicates whether pending alert emails is active) with value checked. Below the table are "Apply Changes" and "Reset" buttons. At the bottom, there is an "Auto Refresh" section with a refresh button. The browser's address bar shows "http://localhost:8004/INGEST\_GUI/Faces/EcdInGaAlerts.jsp".

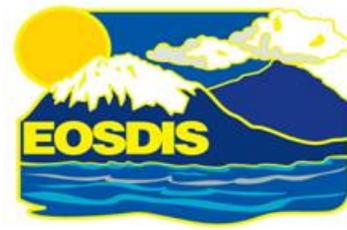
# Alerts – Viewing System Alerts (Cont.)



- **Alert Related Configuration**
  - **Parameter Name**
  - **Parameter Description**
  - **Parameter Value**

The screenshot shows the 'DPL Ingest GUI (DEV09) - Mozilla Firefox' browser window. The page title is 'DATA POOL INGEST web GUI' and the date is 'Thu Feb 1 2007 13:50:40'. The left sidebar contains navigation links: Home, Monitoring, Interventions &amp; Alerts (with sub-links for Interventions, Alerts, Configuration, Reports, and Help), and Help. Below the sidebar, it indicates the user is logged in as 'IngAdmin' and provides links for 'Operator Actions', 'log out', 'change password', and 'show my permissions'. The main content area is titled 'Alerts' and includes a 'Show / Hide Filters' button. Under 'Alert Management', there is a table with one alert entry: 'Failure to connect with an ECS service' with details 'SRVC\_CANNOT\_CONNECT', 'HM01', 'FILE\_TRANSFER Processing', and a creation time of '2007-01-30 16:21:54'. A 'Close Alerts' button is below the table. The 'Alert Related Configuration' section contains a table with two parameters: 'ALERT\_EMAIL\_ADDRESS' (value: 'cmops\_edf@yahoo.com') and 'SEND\_ALERT\_EMAILS' (value: checked checkbox). 'Apply Changes' and 'Reset' buttons are at the bottom of this section. An 'Auto Refresh' progress bar is visible at the very bottom. The browser's address bar shows 'http://localhost:8004/INGEST\_GUI/faces/EcdInGaAlerts.jspx'.

# Alert - Change Alert E-Mail Configuration



- Procedure

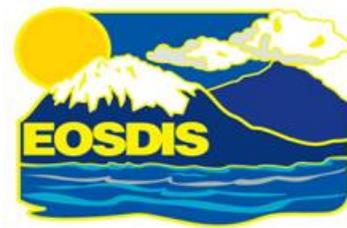
- Enter the e-mail address in the **ALERT\_EMAIL\_ADDRESS**
- Click on **SEND\_ALERTS\_EMAIL** field
- Click on **Apply Changes** button

A screenshot of the DPL Ingest GUI (DEV09) in Mozilla Firefox. The interface shows a navigation menu on the left with options like Home, Monitoring, Interventions & Alerts, Configuration, Reports, and Help. The main content area is titled 'Alerts' and contains an 'Alert Management' section with a table of alerts. Below the table is an 'Alert Related Configuration' section with a table for parameters. The 'ALERT\_EMAIL\_ADDRESS' parameter is highlighted, showing the value 'cmops\_edr@yahoo.com'. There are 'Apply Changes' and 'Reset' buttons at the bottom of the configuration section. The browser's address bar shows 'http://localhost:8004/INGEST\_GUI/faces/EcdInGulAlerts.jsp'.

Alert Details	Alert Description	Alert Type	Resource	Resource Type	Server Name	Creation Time
<input type="checkbox"/>	Failure to connect with an ECS service	SRVC_CANNOT_CONNECT	HH01	FILE_TRANSFER Processing		2007-01-30 16:21:54

Parameter Name	Parameter Description	Parameter Value
ALERT_EMAIL_ADDRESS	Email address to which alert emails will be sent	cmops_edr@yahoo.com
SEND_ALERT_EMAILS	Indicates whether pending alert emails is active	<input checked="" type="checkbox"/>

# Alerts – Viewing Detail System Alerts Information



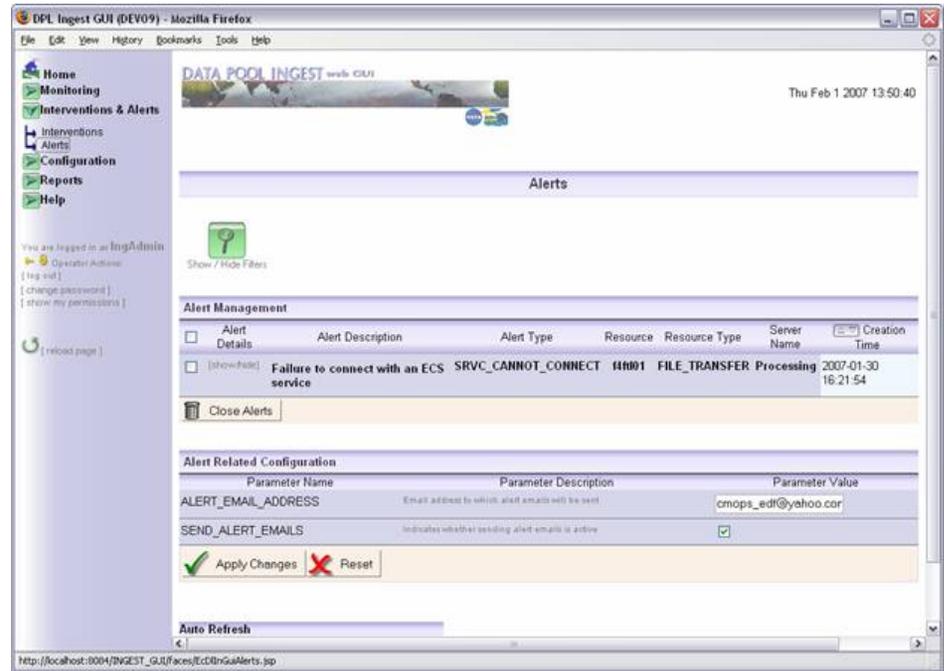
- **Procedure**

- Select the **Interventions and Alerts** link
- Select the **Alerts** link
- Click on the **Show/Hide**

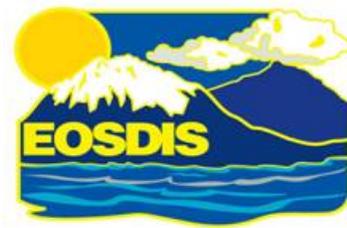
- **Alert Details**

(If Resource type is archive or file system)

- **Symptom**
- **Data Providers affected**
- **Number of PDRs**
- **Number of Granules**
- **Total amount of data queued**
- **Total amount of data processing**



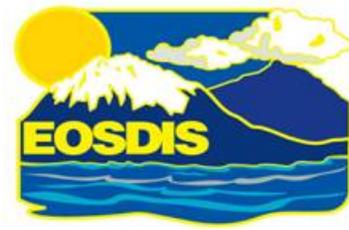
# Alerts – Clearing an Alert



- Procedure
  - Select the **Interventions and Alerts** link
  - Select the **Alerts** link
  - Click on **Alert (s)** to be cleared
  - Click on the **Close Alert** button
  - Select **OK** to the Confirmation prompt

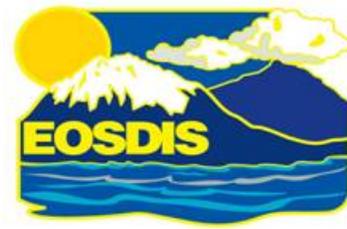
A screenshot of the DPL Ingest GUI (DEV09) in Mozilla Firefox. The browser title is "DPL Ingest GUI (DEV09) - Mozilla Firefox". The page header includes "DATA POOL INGEST web GUI" and the date/time "Thu Feb 1 2007 13:50:40". The left sidebar contains navigation links: Home, Monitoring, Interventions &amp; Alerts (selected), Interventions, Alerts, Configuration, Reports, and Help. The main content area is titled "Alerts" and shows a "Show / Hide Filters" button. Below this is the "Alert Management" section, which contains a table with columns: Alert Details, Alert Description, Alert Type, Resource, Resource Type, Server Name, and Creation Time. A single alert is listed: "Failure to connect with an ECS service" with type "SRVC\_CANNOT\_CONNECT", resource "H001", and resource type "FILE\_TRANSFER Processing". Below the table is a "Close Alerts" button. The "Alert Related Configuration" section shows parameters: "ALERT\_EMAIL\_ADDRESS" with value "cmops\_edr@yahoo.com" and "SEND\_ALERT\_EMAILS" with value checked. There are "Apply Changes" and "Reset" buttons. The "Auto Refresh" section is at the bottom. The URL in the address bar is "http://localhost:8004/INGEST\_GUI/faces/EcDIngestAlerts.jspx".

# Modifying Configurations



- **The DPL Ingest Configuration pages provide the full-capability operator with a means of modifying (if necessary) the values assigned to the following types of DPL Ingest configuration parameters:**
  - **Providers**
  - **Data Types**
  - **Transfer Hosts**
  - **File Systems**
  - **ECS Services**
  - **Global Tuning**
  - **Volume Groups**

# Modifying Configuration (Cont.)



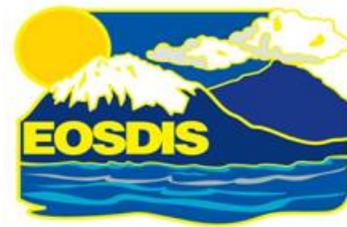
- The Provider Configuration page lists all of the Data Providers for the DPL Ingest System along with the following selected attributes for each Provider
  - Checksum Mandatory
  - % Files To Checksum
  - Default Priority
  - Notification Method
- Providers can be selected, edited and removed

The screenshot shows the 'DPL Ingest GUI (DEV09) - Mozilla Firefox' window. The main content area is titled 'DATA POOL INGEST with GUI' and shows the 'Provider Configuration' page. The page displays a table of providers with columns for 'Provider', 'Checksum Mandatory', '% Files To Checksum', 'Default Priority', and 'Notification Method'. The table is as follows:

Provider	Checksum Mandatory	% Files To Checksum	Default Priority	Notification Method
<input type="checkbox"/> <a href="#">AMSR_E_SPS</a>	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> <a href="#">ASTER_GDS</a>	<input checked="" type="checkbox"/>	100%	VHGH	EMAIL
<input type="checkbox"/> <a href="#">ASTER_QSE</a>	<input type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> <a href="#">EOS1</a>	<input type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/> <a href="#">EOS1AExport</a>	<input type="checkbox"/>	0%	VHGH	EMAIL
<input type="checkbox"/> <a href="#">EDOS</a>	<input checked="" type="checkbox"/>	100%	VHGH	EMAIL
<input type="checkbox"/> <a href="#">ICESAT</a>	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> <a href="#">JPL</a>	<input type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> <a href="#">MCOAPS_AQUA_FPROC</a>	<input checked="" type="checkbox"/>	100%	NORMAL	EMAIL/FTP
<input type="checkbox"/> <a href="#">MCOAPS_COMBINE_FPROC</a>	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> <a href="#">MCOAPS_TERRA_FPROC</a>	<input checked="" type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/> <a href="#">NSDC_DAAC</a>	<input type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/> <a href="#">SAPD</a>	<input type="checkbox"/>	100%	NORMAL	EMAIL

At the bottom of the table, there are buttons for 'Remove Selected Providers' and 'Add A Provider...'. The left sidebar contains navigation links for Home, Monitoring, Interventions & Alerts, Configuration, Reports, and Help. The Configuration section is expanded to show Providers, Data Types, Transfer Hosts, File Systems, ECS Services, Global Tuning, Volume Groups, and Operators.

# Modifying Configuration – Edit Provider

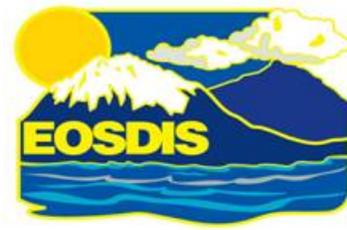


## Procedure

- Select the **Configuration** link
- Select the **Providers** link
- Click on the **Provider ID**
- Click on the parameter to be changed and make the change
- Select the **Apply Changes** button
- Select **OK** to the Confirmation prompt

A screenshot of a web browser window showing the 'Edit a Provider' configuration page. The browser title is 'DPL Ingest GUI (DEV01) - Mozilla Firefox'. The page has a navigation menu on the left with options like Home, Monitoring, Interventions & Alerts, Configuration, Providers, Data Types, Transfer Hosts, File Systems, ECS Services, Global Tuning, Volume Groups, Operators, Reports, and Help. The main content area is titled 'Edit a Provider' and contains various configuration fields for a provider named 'JPL'. Fields include 'Name' (JPL), 'EDOS' (checkbox), 'Checksum Mandatory' (checkbox), '% of Checksum Files' (100), 'Default Priority' (XPRESS(250)), 'Preprocessing Type' (SIPS), 'Max Active Data Volume' (37500 000), 'Max Active Granules' (30), 'Transfer Type' (Local), and 'Notification Method' (Ftp Only). There is a 'Write Info' section with 'Write Login User ID' (jms), 'Edit Password' (checkbox), and 'Path' (jms/ecs/DEV01/CUSTOM/4ms/Media/Data/J). A 'Choose Host' dropdown is set to 'NSIDC'. Below this is a table with columns for Name, FTP Mode, Address, Max FTP Operations, Timeout, and Auto Retry. The table contains one row: Name: NSIDC, FTP Mode: ACTIVE, Address: Media1, Max FTP Operations: 4, Timeout: yes (300s), Auto Retry: yes (300s). At the bottom, there is a 'Read Info' section with 'Read Login Id' and 'Edit Password' (checkbox). At the very bottom, there are two buttons: 'Apply Changes' (with a green checkmark icon) and 'Reset' (with a red X icon).

# Modifying Configurations – Edit Polling Location



## • Procedure

- Select the **Configuration** link
- Select the **Providers** link
- Click on the **Provider ID**
- Scroll to bottom of information panel
- Click on the **Polling Location Name**
- Update information as appropriate
- Select the **Apply Changes** button
- Select **OK** to the Confirmation prompt

Existing Polling Locations		
<input type="checkbox"/>	Name	Address
<input type="checkbox"/>	Polling_AMSR_E_SIPS	f4ei01
<input checked="" type="checkbox"/>	Remove Selected Polling Locations	
<input checked="" type="checkbox"/>	Add A Polling	

Parent Provider: MODAPS\_TERRA\_FPROC

Polling Location Name:  [help]

Source Polling Path:  [help]

Polling Frequency:  [seconds] [help]

DPL Ingest Enabled:

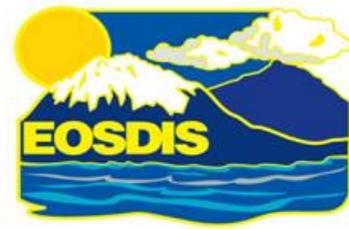
Polling Method:  [help]

Host Name:  [help]

Name:	LPDAAC
FTP Mode:	PASSIVE
Address:	f3drg01
Max FTP Operations:	30
Timeout:	yes (300s)
Auto Retry:	yes (30s)

Apply Changes  Reset

# Modifying Configuration – Add a Provider

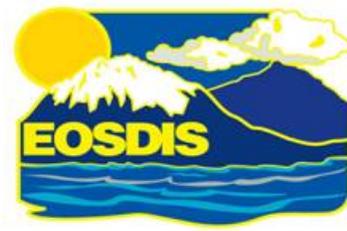


- The Provider Configuration page lists all of the Data Providers for the DPL Ingest System along with the following selected attributes for each Provider
- New Providers can be added from this page, by selecting the Add Provider button

The screenshot shows the DPL Ingest GUI in a Mozilla Firefox browser window. The page title is "DATA POOL INGEST web GUI" and the date is "Thu Feb 1 2007 13:52:43". The left sidebar contains navigation links: Home, Monitoring, Interventions & Alerts, Configuration, Reports, and Help. The Configuration section is expanded, showing sub-links for Providers, Data Types, Transfer Hosts, File Systems, EC2 Services, Global Tuning, Volume Groups, and Operators. The main content area displays the "Provider Configuration" page, which contains a table of providers with columns for Provider, Checksum Mandatory, % Files To Checksum, Default Priority, and Notification Method. At the bottom of the table are buttons for "Remove Selected Providers" and "Add A Provider...".

Provider	Checksum Mandatory	% Files To Checksum	Default Priority	Notification Method
<input type="checkbox"/> AMSR_E_SPS	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> ASTER_GDS	<input checked="" type="checkbox"/>	100%	VHGH	EMAIL
<input type="checkbox"/> ASTER_OSE	<input type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> EDST	<input type="checkbox"/>	100%	NORMAL	EMAIL
<input type="checkbox"/> ECSSubEject	<input type="checkbox"/>	0%	VHGH	EMAIL
<input type="checkbox"/> EDOS	<input checked="" type="checkbox"/>	100%	VHGH	EMAIL
<input type="checkbox"/> ICESAT	<input checked="" type="checkbox"/>	100%	NORMAL	FTP
<input type="checkbox"/> JEL	<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"/> S4PO0	<input type="checkbox"/>	100%	NORMAL	EMAIL

# Modifying Configuration – Add a Provider (Cont.)



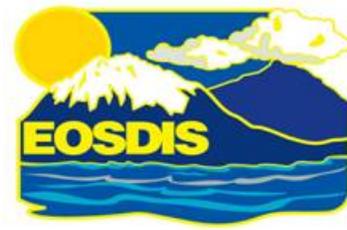
- Procedure
- On the **Add a Provider** page enter the following Data Provider parameters
  - Enter the **Name**
  - If EDOS, Select **EDOS** box. This will automatically lock in certain parameters (ie, Preprocessing Type – None, Transfer Type- FTP Only)
  - Select **Checksum Mandatory**
  - Enter **% Files To Checksum**
  - Enter **Default Priority**
    - Low
    - Normal
    - High
    - VHigh
    - Xpress

A screenshot of the DPL Ingest GUI (DEV09) in Mozilla Firefox. The browser title is "DPL Ingest GUI (DEV09) - Mozilla Firefox". The page header shows "DATA POOL INGEST web GUI" and the date "Thu Feb 1 2007 13:55:38". The main content area is titled "Add a Provider". The form includes the following fields:

- Name: [text input]
- EDOS:
- Checksum Mandatory:
- % of Checksum Files: 0 [text input] (10-100)
- Default Priority: VHIGH(235) [dropdown]
- Preprocessing Type: NONE [dropdown]
- Max Active Data Volume: 0.000 [text input] MB [help]
- Max Active Granules: 0 [text input] [help]
- Transfer Type: Local [dropdown] [help]
- Read Info section:
  - Read Login ID: [text input] [help]
  - Read Login Password: [text input] [help]
  - Confirm Read Login Password: [text input]
- Notification Method: Email Only [dropdown]
- E-Mail Info section:
  - E-Mail address: [text input]

At the bottom of the form are two buttons: "Add This Provider" (with a green plus icon) and "Reset" (with a red X icon).

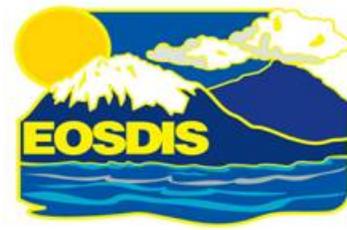
# Modifying Configuration – Add a Provider (Cont.)



- Procedure (Cont.)
  - Select Preprocessing Type
    - NONE
    - SIPS
    - DDIST
  - Enter Max Active Data Volume
  - Enter Max Active Granules
  - Select Transfer Type
    - Local
    - FTP
    - Scp using F-Secure and no cipher
    - Scp using F-Secure and cipher aes128
    - Scp using F-Secure and cipher des

A screenshot of a software configuration window. The "Transfer Type:" label is followed by a dropdown menu currently showing "Local". A mouse cursor is hovering over the dropdown, which has opened to show a list of options: "Local", "Ftp", "Scp using F-Secure and no cipher", "Scp using OpenSSH and cipher aes128", and "Scp using OpenSSH and cipher des". To the right of the dropdown menu, there are two empty input fields, each with a "[ help ]" link to its right. Below the dropdown menu, there is a label "Confirm Read Login Password:" followed by an empty input field.

# Modifying Configuration – Add a Provider (Cont.)



- Procedure (Cont.)
  - Select **Notification Method**
    - Email Only
    - FTP Only or SCP Only
    - FTP Host
    - Local
  - Select **Add This Provider**
  - Select **OK** to confirm

The screenshot shows the 'EPL Ingest GUI (DEV09) - Mozilla Firefox' window. The main content area is titled 'Edit a Provider'. The configuration fields are as follows:

- Name: JPL
- EOS:
- Checksum Mandatory:
- % of Checksum Files: 100
- Default Priority: XPRESS(95)
- Preprocessing Type: SIPS
- Max Active Data Volume: 37500 000
- Max Active Granules: 30
- Transfer Type: Local
- Notification Method: Ftp Only

Below these fields is a 'Write Info' section with:

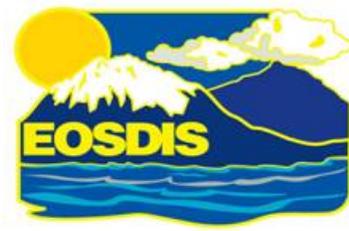
- Write Login User ID: jns
- Edit Password:
- Path: /usr/local/DEV01/CUSTOM/4ins/4el/01/data/UR
- Choose Host: NSIDC

A table below the path field shows the following details:

Name	NSIDC
FTP Mode	ACTIVE
Address	nsidc1
Max FTP Operations	4
Timeout	yes (300s)
Auto Retry	yes (300s)

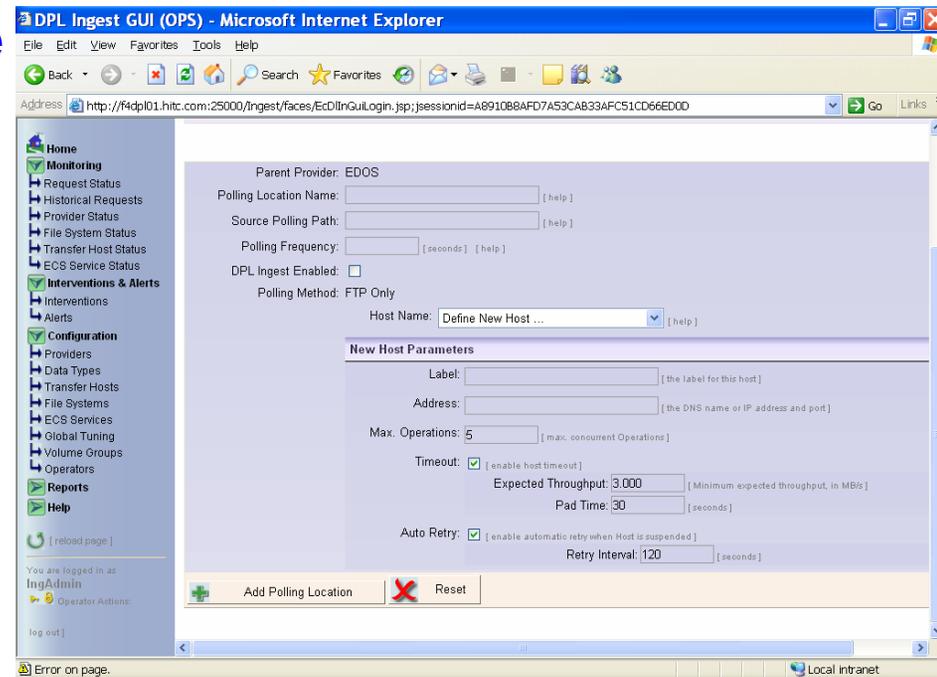
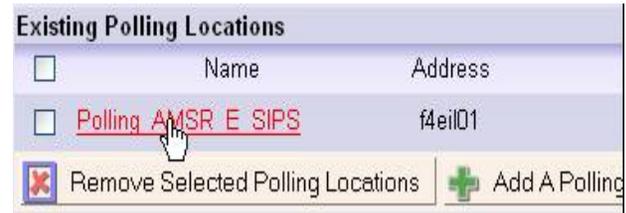
At the bottom, there is a 'Read Info' section with fields for 'Read Login Id' and 'Edit Password'. At the very bottom of the window are two buttons: 'Apply Changes' (with a green checkmark icon) and 'Reset' (with a red X icon).

# Modifying Configurations – Add a Polling Location

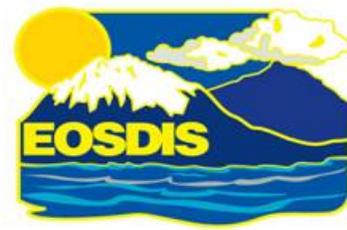


## • Procedure

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



# Modifying Configurations – Data Type Default Retention



- Procedure
  - Select the **Configuration** link
  - Select **Data Types** link
  - Enter the **Default DPL Retention Value**

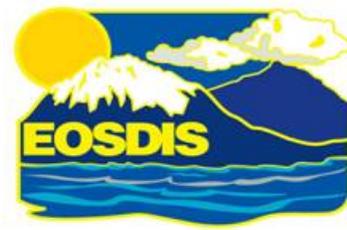
or

  - Enter the **Default Hidden DPL Retention Value**
  - Select **Apply Changes** button
  - Select **OK** to the Confirmation prompt

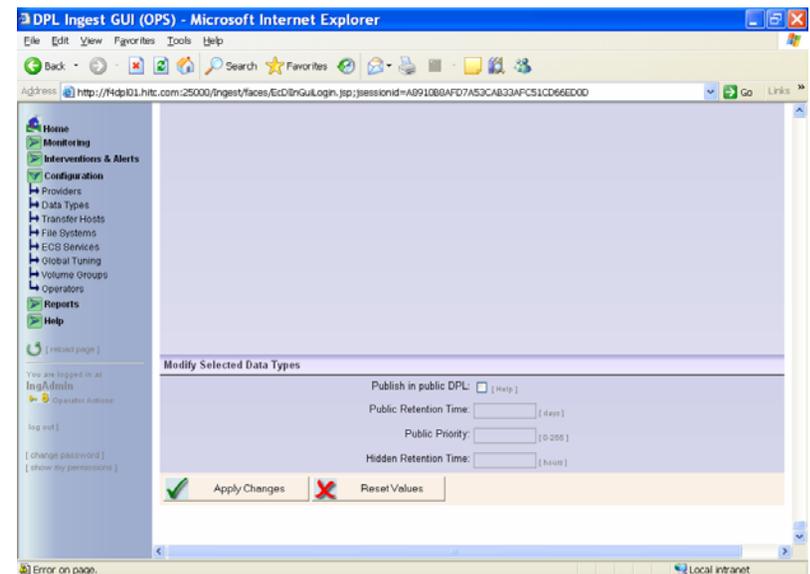
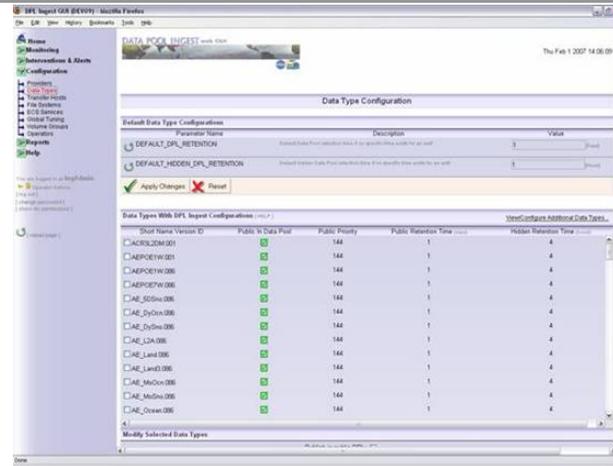
The screenshot shows the 'Data Pool Ingest' configuration window. The 'Default Data Type Configurations' section has two parameters: 'DEFAULT\_DPL\_RETENTION' and 'DEFAULT\_HIDDEN\_DPL\_RETENTION', both set to '1'. Below this is a table titled 'Data Types With DPL Ingest Configurations'.

Short Name	Version ID	Public In Data Pool	Public Priority	Public Retention Time (days)	Hidden Retention Time (days)
<input type="checkbox"/>	ACRSLZDM.001	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AEPOE1W.001	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AEPOE1W.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AEPOE7W.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_SDSia.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_DyOra.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_DySia.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_LQA.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_Land.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_Land0.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_MyOra.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_MySia.006	<input checked="" type="checkbox"/>	144	1	4
<input type="checkbox"/>	AE_Ocean.006	<input checked="" type="checkbox"/>	144	1	4

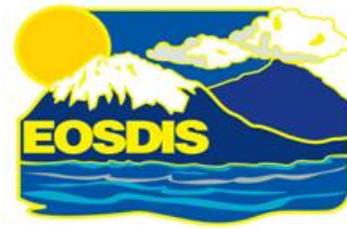
# Modifying Configurations – Data Type Attributes



- Procedure
  - Select the **Configuration** link
  - Select **Data Types** link
  - Select the box next to the **Short Name ID**
  - Scroll to the bottom of the page
  - Make the desired changes for the parameters listed
    - If **Publish in public Data Pool** is enabled, **Public Retention Time** must be entered
    - Otherwise, enter **Hidden Retention Time**
  - Select **Apply Changes** button
  - Select **OK** to the Confirmation prompt

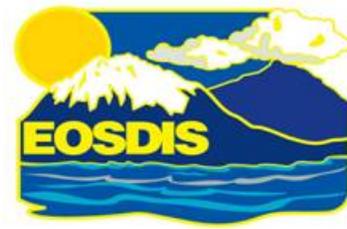


# Modifying Configurations – Transfer Host



- **The Configuration Transfer Host link allows the operator to manage SCP and FTP 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**

# Modifying Configurations – Add SCP or FTP Host



## • Procedure

- 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**
- Select **Add This Host** button

This screenshot shows the "Host Configuration" page in the DPL Ingest GUI. The page is divided into two main sections: "Existing FTP Hosts" and "Existing SCP Hosts".  

Existing FTP Hosts					
<input type="checkbox"/>	LPDAAC	0drg01.htc.com 12		3,000MB/s + 30s	20s
<input type="checkbox"/>	NSIDC	ftel01	10	3,000MB/s + 30s	15s
<input type="checkbox"/>	UNDEFHOST_AMSR_E_SIPS_61787	origin	10	3,000MB/s + 30s	15s
<input type="checkbox"/>	UNDEFHOST_AMSR_E_SIPS_61815	0drg01	10	3,000MB/s + 30s	15s
<input type="checkbox"/>	UNDEFHOST_EOOS_61736	ftel01.htc.com	10	3,000MB/s + 30s	15s

Existing SCP Hosts					
<input type="checkbox"/>	UNDEFHOST_ASTER_GDS_6924	0drg01	10	3,000MB/s + 30s	15s
<input type="checkbox"/>	UNDEFHOST_MODAPS_COMBINE_FPROC_61766	origin	10	3,000MB/s + 30s	15s
<input type="checkbox"/>	ftel01	ftel01	10	3,000MB/s + 30s	15s

This screenshot shows the "SCP Host Configuration - add a new host" form. The form includes several input fields and checkboxes for configuring a new SCP host.

Host Parameters

Label:  [the label for this host]

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

Max. Operations:  [max. concurrent SCP Operations]

Timeout:  [enable host timeout]

Expected Throughput:  [minimum expected throughput, in MB/s]

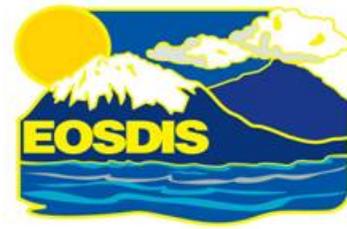
Pad Time:  [seconds]

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

Retry Interval:  [seconds]

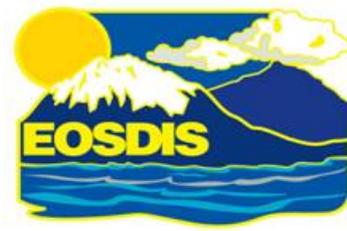
Buttons:

# Modifying Configurations – 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

# Modifying Configurations – File System (Cont.)



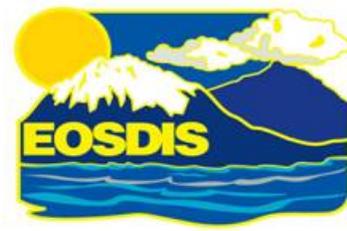
## • Procedure

- Select the **Configuration Link**
- Select **File System link**
- All File Systems are displayed with the following thresholds:
  - **Cache Warning Threshold**
  - **Cache Full Threshold**
  - **Cache Warning Low Watermark**
  - **Displays Cache Full Low Watermark**
- Make changes
- Select the **Update** button

A screenshot of the DPL Ingest GUI (DEV09) in Mozilla Firefox. The browser window title is "DPL Ingest GUI (DEV09) - Mozilla Firefox". The page content is titled "File System Configuration". It displays a table of configuration parameters for five different file systems: ARCHIVE12, ARCHIVE13, ARCHIVE14, Amis1, and Brewfs. Each file system has four rows of configuration items, each with a description, a numerical value in a text input field, and a "Refresh" button. The values shown are: ARCHIVE12 (95, 99, 80, 85), ARCHIVE13 (95, 100, 80, 85), ARCHIVE14 (95, 97, 80, 85), Amis1 (99, 100, 97, 98), and Brewfs (99). The browser's address bar shows the URL "http://localhost:8084/INGEST\_GUI/aces/FCDB/GUI/FileSystemConfig.jsp".

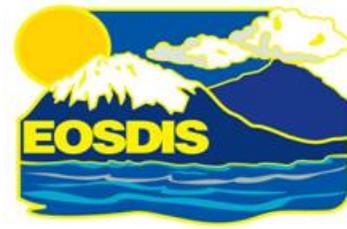
File System	Cache Warning Threshold	Cache Full Threshold	Cache Warning Low Watermark	Cache Full Low Watermark
ARCHIVE12	95	99	80	85
ARCHIVE13	95	100	80	85
ARCHIVE14	95	97	80	85
Amis1	99	100	97	98
Brewfs	99			

# Modifying Configurations – ECS Services



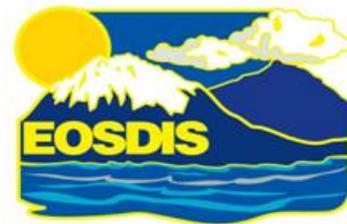
- **The ECS Services Configuration page allows the operator to:**
  - **Configure the parameters of ECS services on a specific host**
    - A default checksum type and algorithm can also be set for use by the checksumming service hosts
  - **To select the host from which the Science Data Server will be run**
  - **The ECS Services Configuration page contains the following three sections**
    - Checksum Type and Algorithm Configuration
    - Host Used For SDSRV Operations
    - ECS Service Host Configuration

# Modifying Configurations – ECS Services (Cont.)



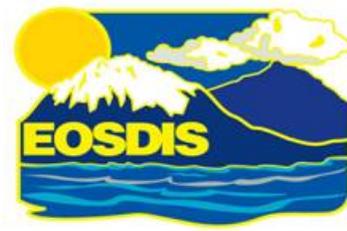
Field Name	Entry	Description
Label	Required	A unique name for the ECS Service host, preferably based on the actual host name.
Address	Required	The IP address (e.g., 127.5.2.88) or canonical name (e.g., f4eil01.hitc.com) of the host.
Port	Required	The port number associated with this service. Hint: the port can be determined by looking at the quickserver's configuration file.
Max. CPU Operations	Required	The total maximum number of checksum operations that may be performed on this host.
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.

# Modifying Configurations – ECS Services (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.
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.
Insert Checksum:		
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.

# Modifying Configurations – Add Checksum Type

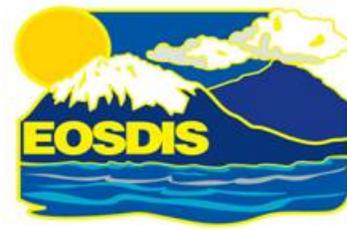


- Procedure
  - Select the **Configuration Link**
  - Select **ECS Services Link**
  - In the Checksum Types and Algorithms, click on the **Add** button
  - Click in the input box next to **Type** and enter the Checksum Type
  - Click in the input box next to **Algorithm** and enter the Algorithm location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

The screenshot shows the 'DPL Ingest GUI (DEV09)' in a Mozilla Firefox browser window. The page title is 'DATA POOL INGEST web GUI' and the date is 'Thu Feb 1 2007 14:44:20'. The main content area is titled 'ECS Services Configuration'. It contains a section for 'Checksum Types And Algorithms' with a table listing 'CKSUM' and 'MD5' types and their respective algorithms. Below this is a section for 'Host Used For SDSRV Operations' with a dropdown menu set to 'ECS Host: Hsp101' and an 'Update' button. At the bottom is a table for 'Hosts Used For ECS Services' with columns for Name, Address, Comments, Checksum, File Transfer, SCP, Archive, Max. Ingest Checksum Operations, and Max. Ingest Copy Operations. The table lists several hosts with their respective configurations and status indicators (green checkmarks for enabled, red X for disabled).

<input type="checkbox"/>	Name	Address	Comments	Checksum	File Transfer	SCP	Archive	Max. Ingest Checksum Operations	Max. Ingest Copy Operations
<input type="checkbox"/>	Hdp01	Hdp01	no comment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	5
<input type="checkbox"/>	H4e01	H4e01	External Interface	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4	4
<input type="checkbox"/>	H801	H801	External Interface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	4
<input type="checkbox"/>	H4he01	H4he01	no comment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	4
<input type="checkbox"/>	Hsp01	Hsp01	no comment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4	4

# Modifying Configurations – Update Host Used For SDSVR

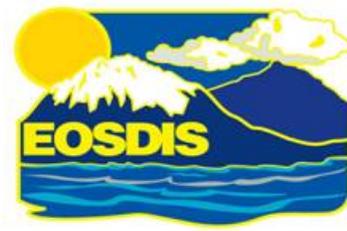


- Procedure
  - Select the **Configuration Link**
  - Select **ECS Services Link**
  - In the **Update Hosts Used For SDSVR Operation** section, select the desired host name from the pull-down window
  - In the **Update Hosts Used For SDSVR Operation** section select the **Update** button

The screenshot shows the 'DPL Ingest GUI (DEV09)' in a Mozilla Firefox browser. The page title is 'DATA POOL INGEST web GUI' and the date is 'Thu Feb 1 2007 14:44:20'. The left sidebar contains a navigation menu with 'Configuration' selected. The main content area is titled 'ECS Services Configuration'. It includes a section for 'Checksum Types And Algorithms' with a table of configurations. Below that is a section for 'Host Used For SDSRV Operations' with a dropdown menu set to 'ECS Host: f4sp01' and an 'Update' button. At the bottom is a table for 'Hosts Used For ECS Services' with columns for Name, Address, Comments, Checksum, File Transfer, SCP, Archive, Max. Insert Checksum Operations, and Max. Insert Copy Operations. The table lists several hosts with their respective configurations and status indicators (green checkmarks for enabled, red X for disabled).

Name	Address	Comments	Checksum	File Transfer	SCP	Archive	Max. Insert Checksum Operations	Max. Insert Copy Operations
<input type="checkbox"/> f4dp01	f4dp01	no comment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	5	5
<input type="checkbox"/> f4ei01	f4ei01	External Interface	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	4
<input type="checkbox"/> f4eo01	f4eo01	External Interface	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	4
<input type="checkbox"/> f4he01	f4he01	no comment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	4
<input type="checkbox"/> f4sp01	f4sp01	no comment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4	4

# Modifying Configurations – Add ECS Service Host Type

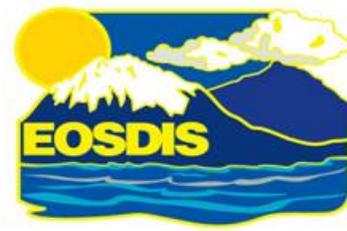


- Procedure
  - Select the **Configuration Link**
  - Select **ECS Services Link**
  - In the **Hosts Used For ECS Services** section, click on the **Add ECS Service Host** button
  - Enter the **Global Parameters**
  - Enter the **Checksum** parameters
  - Enter the **File Transfer** parameters
  - Enter the **Archiving** parameters
  - Enter the **Insert Checksum** parameters
  - Enter the **Insert Copy** parameters

The screenshot shows a web browser window titled 'DPL Ingest GUI (DEV09) - Mozilla Firefox'. The page content is titled 'DATA POOL INGEST web GUI' and shows the date 'Thu Feb 1 2007 14:48:41'. A left-hand navigation menu includes links for Home, Monitoring, Interventions & Alerts, Configuration (selected), Providers, Data Types, Transfer Hosts, File Systems, ECS Services, Global Tuning, Volume Groups, Operators, Reports, and Help. The main content area is titled 'Ecs Service Configuration: Add Service Host' and contains several sections with form fields:

- Global Parameters:** Includes fields for Label, Address, Port (with a 'number' hint), Auto Retry (checkbox), and Comments.
- Checksum:** Includes an 'Enable this service' checkbox, Max. Concurrent Checksum Operations (with a 'number' hint), Expected throughput (with a 'MB/s [help]' hint), and Checksum Timeout Pad Time (with a 'seconds [help]' hint).
- File Transfer:** Includes an 'Enable this service' checkbox, an 'Enable SCP' checkbox, and Max. Concurrent File Transfers (with a 'number [help]' hint).
- Archiving:** Includes an 'Enable this service' checkbox, Max. Concurrent Archive Operations (with a 'number [help]' hint), Expected Throughput (with a 'MB/s [help]' hint), and Archive Timeout Pad Time (with a 'seconds [help]' hint).
- Insert Checksum:** Includes Max. Concurrent Insert Checksum Operations (with a 'number [help]' hint).
- Insert Copy:** Includes Max. Concurrent Insert Copy Operations (with a 'number [help]' hint), Expected Throughput (with a 'MB/s [help]' hint), and Insert Timeout Pad Time (with a 'seconds [help]' hint).

# Modifying Configurations – Add ECS Service Host Type (Cont.)

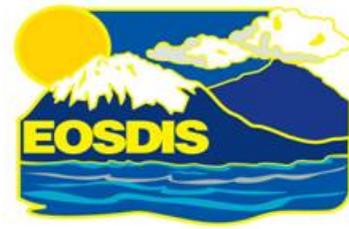


- Procedure (Cont.)
  - Enter the **Insert Checksum** parameter
  - Enter the **Insert Copy** parameters
  - Select the **Add This Service Host** button
- Note: An existing service host may be edited by clicking on the **[Name]** of the desired host located in the **Hosts Used For ECS Services** section.

The screenshot shows the 'ECS Services Configuration' page in the DPL Ingest GUI. The page is divided into several sections:

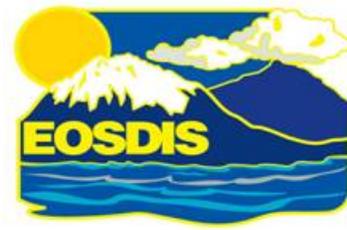
- Checksum Types And Algorithms [ Help ]**: A table with columns for 'Type', 'Algorithm', and 'Default'. It lists 'CKSUM' with algorithm '/usr/bin/cksum' and 'MD5' with algorithm '/usr/ecs/DEV01/CUSTOM/bin/COM/smd5sum'. Below the table are buttons for 'Remove', 'Add', 'Update', and 'Reset'.
- Host Used For SDSRV Operations**: A dropdown menu showing 'ECS Host: f4sp01' and an 'Update' button.
- Hosts Used For ECS Services**: A table with columns: Name, Address, Comments, Checksum, File Transfer, SCP, Archive, Max. Insert Checksum Operations, and Max. Insert Copy Operations. The table contains five rows of host configurations.

# Modifying Configurations – Change Global Tuning



- **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**
- **Static parameters are those that require the Ingest Service to be restarted**

# Modifying Configurations – Change Global Tuning (Cont.)

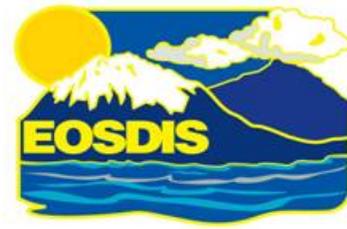


- Procedure

- 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**

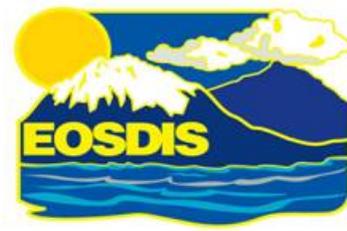
A screenshot of the 'DPL Ingest GUI (DEV09)' web interface in Mozilla Firefox. The browser title bar shows 'DPL Ingest GUI (DEV09) - Mozilla Firefox'. The page header includes 'DATA POOL INGEST web GUI' and the date 'Thu Feb 1 2007 15:32:55'. A left-hand navigation menu contains links for Home, Monitoring, Interventions &amp; Alerts, Configuration, Reports, and Help. The 'Configuration' section is expanded, showing sub-links for Providers, Data Types, Transfer Hosts, File Systems, EOS Services, Global Tuning (selected), Volume Groups, Operators, and Help. Below the menu, a user status bar indicates 'You are logged in as IngAdmin' with options to change password or show permissions. The main content area is titled 'Global Tuning' and contains two tables for parameter configuration. The first table, 'Global Admin Tuning Parameter Configuration', lists parameters such as 'ARCHIVE\_CACHE\_CHECK\_INTERVAL' (value 60), 'DEFAULT\_ALERT\_RETRY\_SECS' (value 10), 'GET\_DPL\_SPACE\_MINS' (value 2), 'MAX\_RETRY\_CHECKSUM\_VERIFY' (value 10), 'MINS\_TO\_KEEP\_COMPLETED\_MESSAGES' (value 60), 'MINS\_TO\_KEEP\_COMPLETED\_REQS' (value 40), 'MONTHS\_TO\_KEEP\_HIST\_STATS\_ALERTS' (value 3), 'NUM\_RETRIES\_UR\_ERROR' (value 6), and 'RETRY\_SECS\_UR\_ERROR' (value 30). The second table, 'Global Tuning Parameter Configuration', lists parameters like 'DEFAULT\_NUM\_RETRIES' (value 3), 'DEFAULT\_RETRY\_INTERVAL' (value 5), 'EDOS\_SUCCESSFUL\_PAN\_DIR' (empty), and 'FAILED\_CHECKSUM\_HOLDING\_DIR' (value '/usr/ecs/DEV01/CUSTOM'). Both tables have 'Apply Changes' and 'Reset' buttons at the bottom.

# Modifying Configurations – Volume Groups



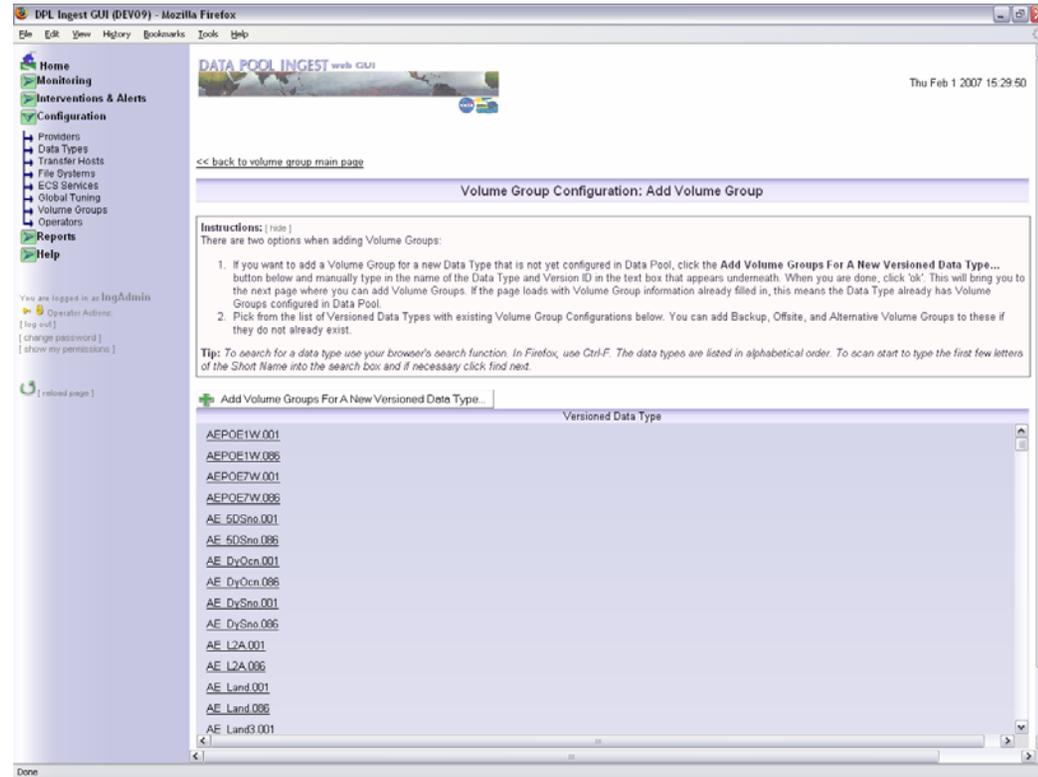
- **The Volume Group configuration in the DPL Ingest GUI is the same functionality that existed in the STMGT GUI tab prior to release 7.20**
- **The Volume Groups Configuration page is divided into four distinct columns**
  - **Volume Group name**
  - **Path**
  - **HWCI**
  - **Selection date for that volume group**

# Modifying Configurations – Add Volume Groups- New Data Type

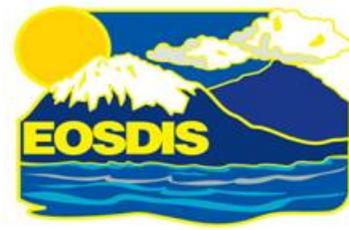


## Procedure

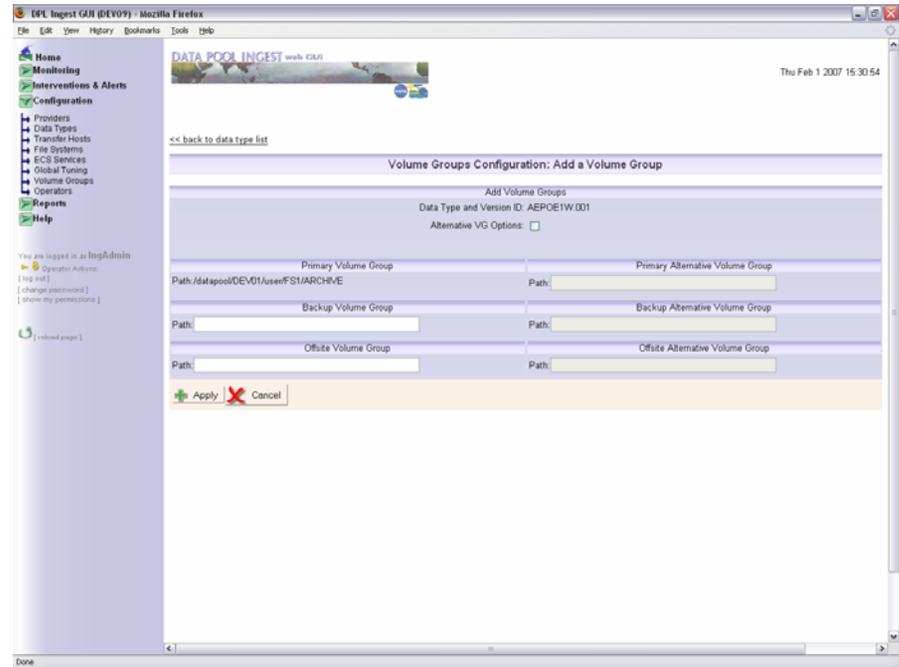
- Select the **Configuration** link
- Select the **Volume Group** link
- Select the **Add Volume Group** button
- Select the **Add Volume Groups For A New Versioned Data Type** button
- Enter the **Name** and **Version ID** data in the edit window
- Select **OK**
- **Volume Group Configuration: Add a Volume Group** window is displayed



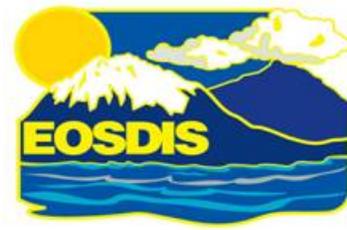
# Modifying Configurations – Add Volume Groups New Data Type (Cont.)



- Procedure (Cont.)
  - If Alternate Volume Group was specified, click on **Alternate VG** box
  - If adding Alternate Volume Group history set, click on the **Reprocessing** or **Forward Processing** button
  - If adding Alternate Volume Group history set, select an appropriate **Date** to set for storing/retrieving data



# Modifying Configurations – Add Volume Groups New Data Type (Cont.)



## • Procedure (Cont.)

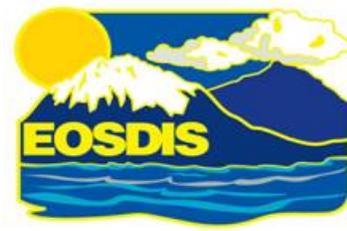
- Enter the fully qualified Unix path to the **Primary Archive**
- Enter the fully-qualified Unix path for the **Primary Alternate Archive**
- Enter the fully-qualified Unix path for the **Backup Archive**
- Enter the fully-qualified Unix path for the **Backup Alternate Archive**
- Enter the fully-qualified Unix path for the **Offsite Archive**
- Enter the fully-qualified Unix path for the **Offsite Alternate Archive**
- Select in the **Apply** button
- Select **OK**

The screenshot shows a web browser window titled "EPL Ingest GUI (DEV09) - Mozilla Firefox". The page content includes a navigation menu on the left with options like Home, Monitoring, Interventions & Alerts, Configuration, Providers, Data Types, Transfer Methods, File Systems, ECS Services, Global Tuning, Volume Groups, Operators, Reports, and Help. The main content area is titled "Volume Groups Configuration: Add a Volume Group" and contains the following form fields:

- Primary Volume Group: Path: /data/pool/DEV01/user/FST1/ARCHIVE
- Primary Alternative Volume Group: Path: [empty]
- Backup Volume Group: Path: [empty]
- Backup Alternative Volume Group: Path: [empty]
- Offsite Volume Group: Path: [empty]
- Offsite Alternative Volume Group: Path: [empty]

At the bottom of the form, there are "Apply" and "Cancel" buttons. The page also displays "Data Type and Version ID: AEP0E1W001" and "Alternative VG Options: ".

# Modifying Configurations – Add Volume Groups Existing Data Type

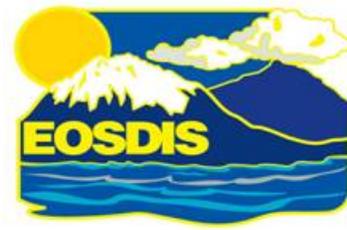


## Procedure

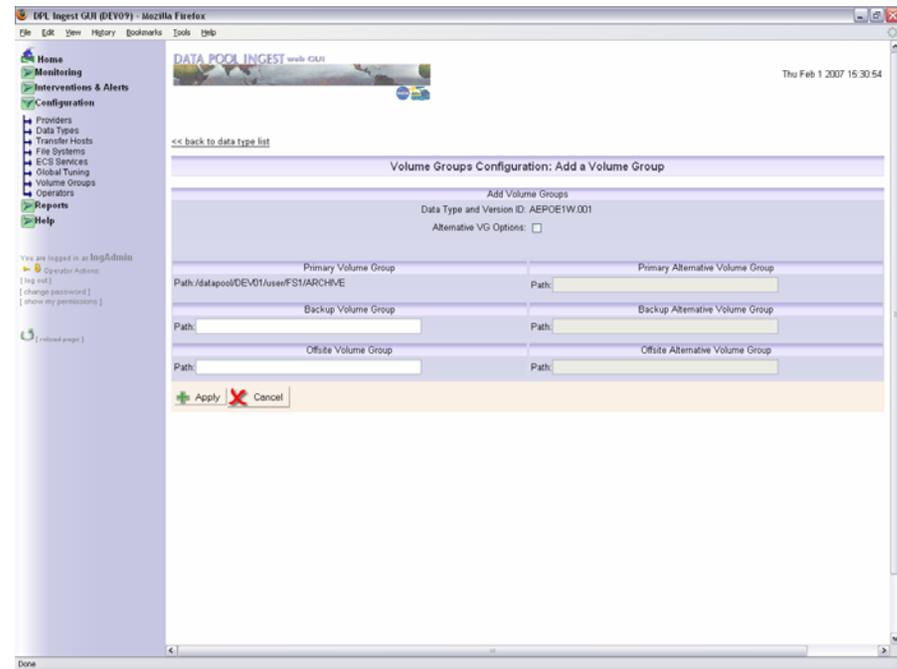
- Select the **Configuration** link
- Select the **Volume Group** link
- Select the **Add Volume Group** button
- Click on **Versioned Data Type**
- **Volume Group Configuration: Add a Volume Group** window is displayed

A screenshot of the DPL Ingest GUI (DEV09) in a Mozilla Firefox browser window. The browser title is 'DPL Ingest GUI (DEV09) - Mozilla Firefox'. The page content includes a navigation menu on the left with options like Home, Monitoring, Interventions &amp; Alerts, Configuration, Reports, and Help. The main content area is titled 'Volume Group Configuration: Add Volume Group'. It contains instructions for adding volume groups, a search box, and a list of 'Versioned Data Type' entries such as 'AEP0E1W.001', 'AEP0E1W.006', 'AEP0E7W.001', 'AEP0E7W.006', 'AE\_5DSno.001', 'AE\_5DSno.006', 'AE\_DyOcn.001', 'AE\_DyOcn.006', 'AE\_DySno.001', 'AE\_DySno.006', 'AE\_L2A.001', 'AE\_L2A.006', 'AE\_Land.001', 'AE\_Land.006', and 'AE\_Land3.001'. The browser's status bar at the bottom shows 'Done'.

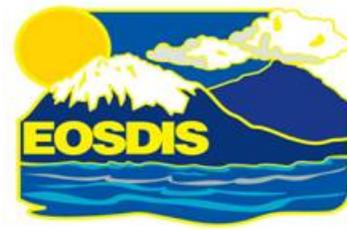
# Modifying Configurations – Add Volume Groups Existing Data Type (Cont.)



- Procedure (Cont.)
  - If Alternate Volume Group was specified, click on **Alternate VG** box
  - If adding Alternate Volume Group history set, click on the **Reprocessing** or **Forward Processing** button
  - If adding Alternate Volume Group history set, select an appropriate **Date** to set for storing/retrieving data

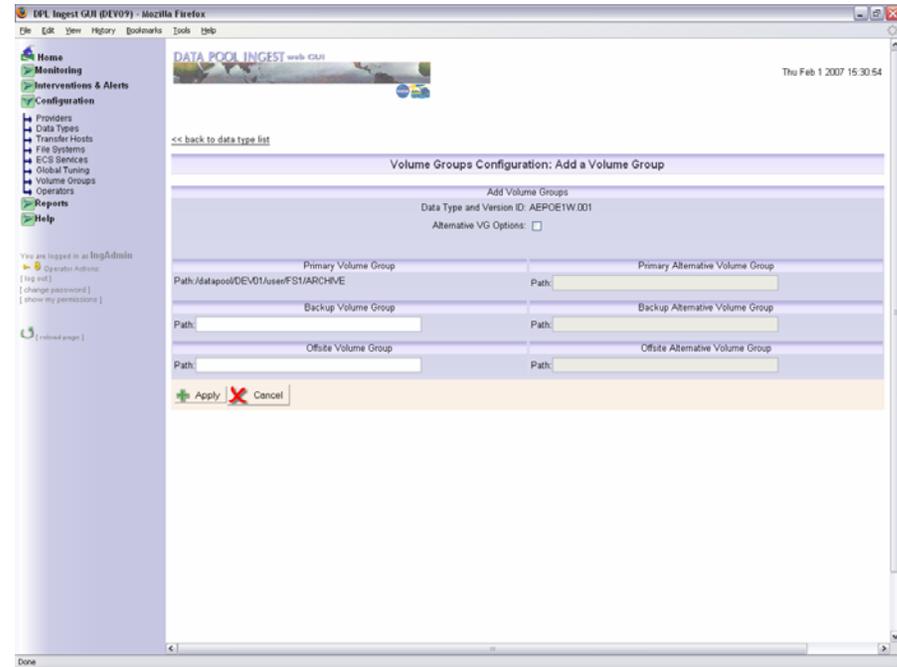


# Modifying Configurations – Add Volume Groups Existing Data Type (Cont.)

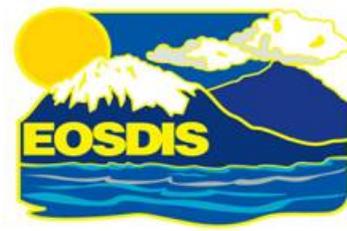


## Procedure (Cont.)

- 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 path for the **Offsite Alternate Archive**
- Select in the **Apply** button
- Select **OK**



# Modifying Configurations – Modify Volume Groups



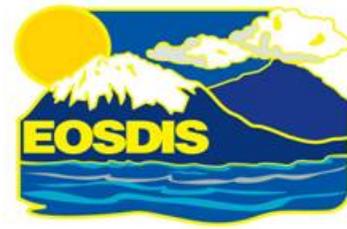
- Procedure
  - Select the **Configuration** link
  - Select the **Volume Group** link
  - Click on the box next to the **Volume Group Name**
  - Click on the **Modify Selected Volume Groups** button
  - Enter the new **Volume Group Path**
  - Select **OK**

The screenshot shows the DPL Ingest GUI (DEV09) in a Mozilla Firefox browser window. The page title is "DATA POOL INGEST web GUI" and the date is "Thu Feb 1 2007 15:27:51". The left sidebar contains a navigation menu with "Configuration" selected, and sub-items like "Providers", "Data Types", "Transfer Hosts", "File Systems", "ECS Services", "Global Tuning", "Volume Groups", "Operators", "Reports", and "Help". The main content area is titled "Volume Groups Configuration" and displays a table of 418 entries. The table has columns for "Volume Group Name", "Path", "Hardware CI", and "Selection Date". The visible entries include:

Volume Group Name	Path	Hardware CI	Selection Date
<input type="checkbox"/> AEPOE1W.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	
<input type="checkbox"/> AEPOE1W.086	/stornext/snfs1/DEV01/EMOS/	DRP1	
<input type="checkbox"/> AEPOE7W.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	
<input type="checkbox"/> AEPOE7W.086	/stornext/snfs1/DEV01/EMOS/	DRP1	
<input type="checkbox"/> AE_5DSno.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	
<input type="checkbox"/> AE_5DSno.086	/stornext/snfs1/DEV01/AMSR/	DRP1	
<input type="checkbox"/> AE_DyOcn.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	
<input type="checkbox"/> AE_DyOcn.086	/stornext/snfs1/DEV01/AMSR/	DRP1	
<input type="checkbox"/> AE_DySno.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	
<input type="checkbox"/> AE_DySno.086	/stornext/snfs1/DEV01/AMSR/	DRP1	
<input type="checkbox"/> AE_L2A.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	
<input type="checkbox"/> AE_L2A.086	/stornext/snfs1/DEV01/AMSR/	DRP1	
<input type="checkbox"/> AE_Land.001	/datapool/DEV01/user/FS1/ARCHIVE	DRP1	

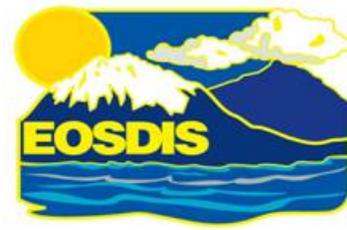
At the bottom of the table, there are two buttons: "Modify Selected Volume Groups..." and "Add Volume Group...". The browser's address bar shows the URL: http://localhost:8084/INGEST\_GUI/faces/EcdIngestVolGroupConfigList.jsp.

# Modifying Configurations – Operator Access



- **There are five different permission levels**
  - An operator may be assigned multiple permissions other than view only
- **The following list reviews the five permission levels for the Data Pool Ingest GUI**
  - **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, etc
  - **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

# Modifying Configurations – Modify Operator Permission Settings

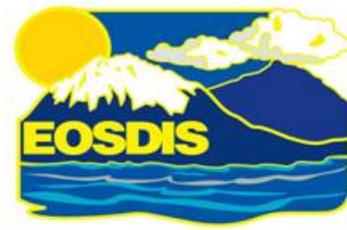


- Procedure
- **Reminder: Must have special Security Admin access to make changes**
  - Select the **Configuration** link
  - Select the **Operators** link
  - Click the box next to the name of the operator requiring changes
  - Click on the box next to the desired permissions change
  - Click the **Update Operators** button
  - Select **OK**

A screenshot of the 'DPL Ingest GUI (REV09) - Mozilla Firefox' browser window. The page title is 'DATA POOL INGEST with OLS'. The date and time are 'Thu Feb 1 2007 15:33:25'. The left sidebar contains a navigation menu with 'Configuration' expanded to show 'Operators'. The main content area is titled 'Operator Configuration' and includes a note: 'Changes to an existing operator's permissions will not take effect until the next login for that particular operator.' Below this is the 'Operator Management' section, which contains a table with columns for 'Operator Name' and 'Permissions'. The table lists various operators such as IngAdmin, IngTuning, JanR, V0000, V000A, V0070, V007A, V0500, V050A, V0570, V057A, V000, V00A, V070, V07A, V0500, V050A, and V0570. Each row has checkboxes for 'view only', 'ingest control', 'ingest admin', 'ingest tuning', and 'ingest security'.

Operator Name	view only	ingest control	ingest admin	ingest tuning	ingest security
IngAdmin	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
IngTuning	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
JanR	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V0000	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V000A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V0070	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V007A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V0500	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V050A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V0570	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V057A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V000	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V00A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V070	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V07A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V0500	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V050A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
V0570	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

# Modifying Configurations – Add Operator Permission Settings



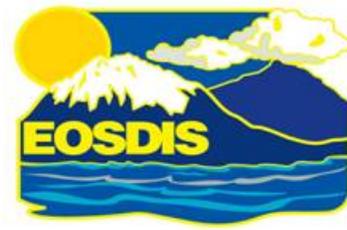
- Procedure
- **Reminder: Must have special Security Admin access to make changes**
  - Select the **Configuration** link
  - Select the **Operators** link
  - Scroll to the bottom of the Operator Configuration screen to the **Add Operator** section

A screenshot of the 'Add Operator' configuration screen. The form includes the following fields and options:

- Operator Name: DavidH
- Password: \*\*\*\*\*
- Verify Password: \*\*\*\*\*
- Permissions:
  - view only
  - ingest control
  - ingest admin
  - ingest tuning
  - ingest security

At the bottom left, there is a green plus icon and a button labeled 'Add Operator' with a mouse cursor pointing to it.

# Modifying Configurations – Add Operator Permission Settings (Cont.)



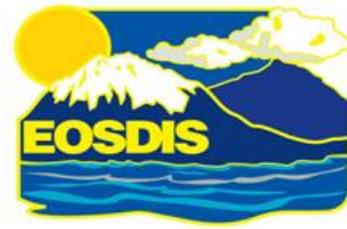
- Procedure (Cont.)
  - Enter the **Operator Name**
  - Enter the **Password**
  - Enter the **Verify Password**
  - Select the **Permissions**
  - Click the **Add Operators** button
  - Select **OK**

A screenshot of a web-based "Add Operator" dialog box. The title bar at the top reads "Add Operator". The form contains the following fields and options:

- Operator Name: A text input field containing "DavidH".
- Password: A password input field with masked characters "\*\*\*\*\*".
- Verify Password: A password input field with masked characters "\*\*\*\*\*".
- Permissions: A list of checkboxes with corresponding icons:
  - view only (with an eye icon)
  - ingest control (with a red 'S' and green 'G' icon)
  - ingest admin (with a grey arrow icon)
  - ingest tuning (with a grey grid icon)
  - ingest security (with a yellow key and lock icon)

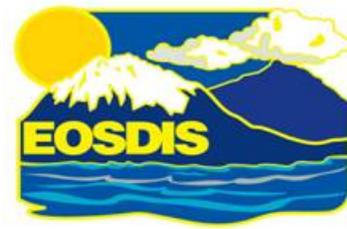
At the bottom left of the dialog, there is a green plus sign icon and a button labeled "Add Operator". A mouse cursor is pointing at the "Add Operator" button.

# Reports

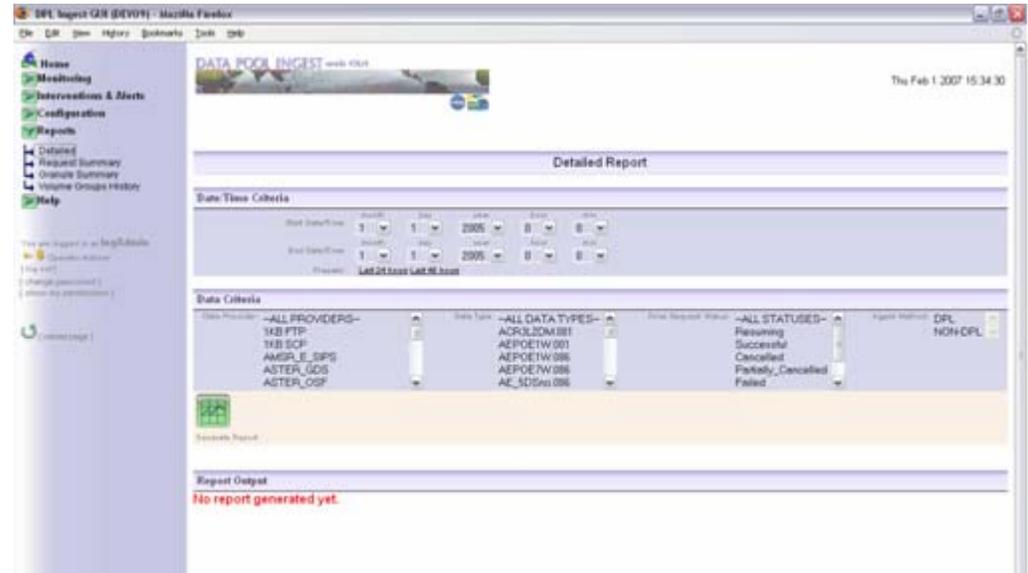


- **The reporting capability of the Ingest GUI offers the ability to view detailed reports on data providers, data types, request summary and granule summary reports**
- **The report pages display the information across data providers or data types**
- **Due to the large volume of data that may be in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

# Generating Reports



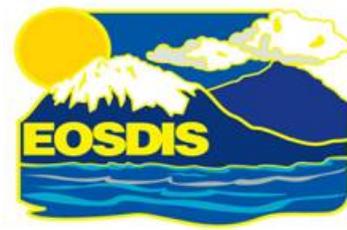
- Procedure
  - Select the **Reports** link
  - Select **Detailed**, **Request Summary** or **Granule Summary** link
  - Enter the **Start Date/Time** and **End Date/Time**
  - Select the **Data Providers**, **Data Types**, one or more **Final Request Statuses**, and the **Ingest Method** (ie, **DPL**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



Current Report Criteria:	
Data Provider(s): [ALL]	Data Type(s): [ALL]
Final Request Status: [ALL]	Start Date/Time: 1/11/2006 15:18
End Date/Time: 31/10/2006 15:18	

Report Output														
Req.ID	Data Provider	Ingest Type	Ingest Method	Start Date/Time	End Date/Time	Tot.# grans.	# Succ. grans.	Vol (MB)	File Count	Time to xfer (mins)	Time to preproc (min)	Time to Archive (min)	Priority	Restart Flag
21807	S4P00	Polling_wDR	DPL	2006-11-01 08:21:07	2006-11-01 08:21:19	1	1	6.311	2	0	8	0	WHIGH	
21808	S4P00	Polling_wDR	DPL		2006-11-01 08:29:06	1		6.245	2	0	0	0	WHIGH	
21809	ASTER_OSF	Polling_wDR	DPL	2006-11-01 10:03:09	2006-11-01 10:03:10	1		0.473	2	0	0	0	NORMAL	
21810	ASTER_OSF	Polling_wDR	DPL	2006-11-01 10:03:09	2006-11-01 10:03:10	1		0.473	2	0	0	0	NORMAL	
21811	ASTER_OSF	Polling_wDR	DPL	2006-11-01 10:03:09	2006-11-01 10:03:10	1		0.473	2	0	0	0	NORMAL	

# Generating Reports (Cont.)

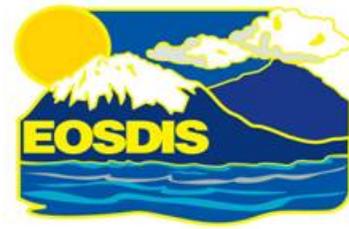


## Request Summary Report Layout

Current Report Criteria:															
Data Type(s): [ALL]										Final Request Status: [ALL]					
Start Date/Time: 1/11/2006 15:21										End Date/Time: 31/10/2006 15:21					
Report Output															
Data Provider	Ingest Type	Ttl. Reqs	Ttl. Errors	Gran Avg	Gran Max	File Avg	File Max	Size Avg (MB)	Size Max (MB)	Xfer time Avg (mins)	Xfer time Max (mins)	Preproc time Avg (mins)	Preproc time Max (mins)	Archive Time Avg (mins)	Archive Time Max (mins)
ASTER_OSF		12	0	1	1	2	2	0.473	0.473	10	126	3	14	0	1
CRIT_4150_2		10	0	1	1	2	2	0.473	0.473	0	1	1	2	0	0
MODAPS_TERRA_FPROC		1	0	1	1	2	2	0.473	0.473	0	0	2	2	0	0
S4P00		57	0	1	1	2	3	16.157	71.236	0	2	2	8	0	1

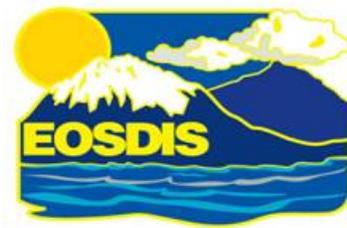
## Granule Summary Report Layout

Current Report Criteria:															
Data Provider(s): [ALL]								Data Type(s): [ALL]							
Final Request Status: [ALL]								Start Date/Time: 1/11/2006 15:21							
End Date/Time: 30/10/2006 15:21															
Report Output															
Data Provider	Ingest Type	Data Type	Ttl. Grans	Ttl. Errors	File Avg	File Max	Size Avg (MB)	Size Max (MB)	Xfer time Avg (mins)	Xfer time Max (mins)	Preproc time Avg (mins)	Preproc time Max (mins)	Archive Time Avg (mins)	Archive Time Max (mins)	
ALL_ESDTS		AEPOE1W	2	0	2	2	0.048	0.048	0	1	19	27	1	3	
ALL_ESDTS		AEPOE7W	2	0	2	2	0.100	0.100	0	1	11	15	1	1	
ALL_ESDTS		AE_SD\$no	2	0	2	2	0.100	0.100	1	2	18	21	0	0	
ALL_ESDTS		AE_Dy0cn	4	0	2	2	0.100	0.100	1	3	15	28	0	1	
ALL_ESDTS		AE_Dy\$no	4	0	2	2	0.100	0.100	0	1	18	29	1	4	
ALL_ESDTS		AE_L2A	29	0	2	2	0.103	0.103	2	5	16	30	1	4	
ALL_ESDTS		AE_Land3	4	0	2	2	0.100	0.100	2	3	11	17	0	3	
ALL_ESDTS		AE_Mo0cn	3	0	2	2	0.100	0.100	2	3	12	24	0	0	



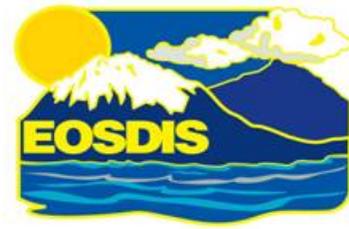
- **The Help section, contains information the operator can have readily available while operating the Data Pool Ingest GUI**
- **Three links**
  - **General Topics**
  - **Context Help**
  - **About**

# Help – General Topics



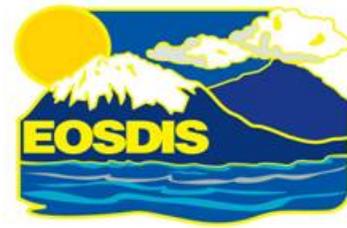
- Procedure
  - Select the **Help** link
  - Select the **General Topics** link
  - Click on **Request State Transition** link

The screenshot shows a web browser window titled "DPL Ingest GUI (DEV09) - Mozilla Firefox". The page content includes a navigation menu on the left with links for Home, Monitoring, Interventions &amp; Alerts, Configuration, Reports, Help, General Topics, Contact Help, and About. The "General Topics" link is highlighted. The main content area is titled "Request State Transition" and contains an "Index" section with links to "Request State Transition" and "Granule State Transition". Below this is a section titled "Request State Transition" with a paragraph of text and a bulleted list of notes. It then presents "Possible Request Paths" in three columns: "Normal Transition", "Cold Restart", and "Validation Failed". Each column contains a numbered list of states. Below this is another section titled "Possible Request Paths (cont.)" with three columns: "Failed Granules", "Suspended Granules", and "Operator Cancellation", each containing a numbered list of states and sub-states. The final section is "Granule State Transition", which includes a paragraph and a "Possible Granules Paths" section with two columns: "Normal Transition" and "Possible Error States", each containing a numbered list of states.



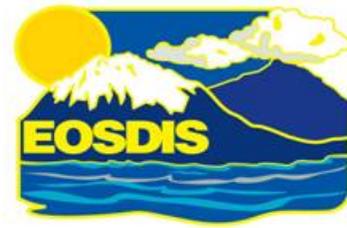
- Procedure
  - Select the **Configuration** link
  - Select the **Volume Group** link
  - In the Select Volume Group Section, Enter the **Volume Group** name
  - Select the **retrieve** button
  - The **HWCI, Path, Start Date** and **End Date**, are displayed in the **[Name] Volume Group History** section

# Data Pool Management



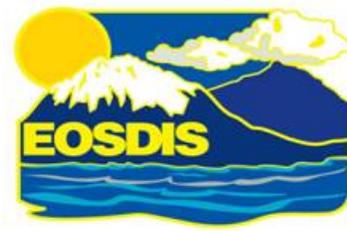
- **Features of the Data Pool Maintenance GUI**
  - Most Archive or support personnel tasks for monitoring and maintaining the Data Pool require the use of the Data Pool Maintenance (DPM) GUI
  - The **DPM GUI** permits an operator to perform tasks in the following general areas:
    - Managing **Data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

# Data Pool Management (Cont.)



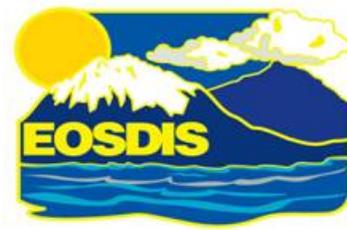
- **Features of the Data Pool Maintenance GUI (Cont.)**
  - **New operator GUI security standards require the following two levels of permissions for the DPM GUI:**
    - **Full Capability**
    - **Limited Capability**
  - **Full-capability operators have the ability to configure parameters and perform 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 limited-capability operators are identified**

# DPM GUI: Home Page



Data Pool Maintenance GUI --- TS2 MODE - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmHomePage.pl Search Print

Mail AIM Home Radio Netscape Search Bookmarks PVC Metrics GNU Emacs Referenc... esdis-proto.gsfc.nas... Members WebMail Connections BizJournal

Data Pool Maintenance GUI -- TS2 ...

## Data Pool Maintenance

TS2

Home Page Batch Summary List Insert Queue Collection Groups Themes Data Pool File Systems  
Compression Algorithms Cloud Cover Configuration Parameters Help End Session

[Refresh Home Page](#)

Screen Refresh Rate  (in Secs)  Last Screen Refresh on Sat Feb 21 09:13:37 EST 2004

Active Insert Processes  rows

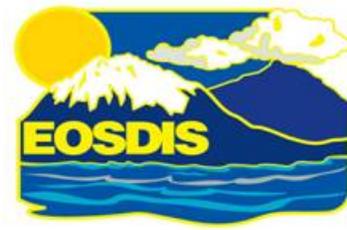
File System Label	Free Space Flag	Availability	Min Freed Space in MB
DEFAULT	State : Y Last changed:	State : Y Last changed:	10

Maximum allowed processes	30
Maximum allowed processes from AMASS cache	20
Maximum allowed processes from AMASS tape	10
Total number of active insert processes running	0
Number of active insert processes using AMASS cache	0
Number of active insert processes using AMASS tape	0

Unix ProcessId	ecsID	Collection	Version	Start Time	Status Time	Status	AMASS Cache	Retries
----------------	-------	------------	---------	------------	-------------	--------	-------------	---------

Document: Done (2.611 secs)

# DPM GUI: Collection Groups Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dp101.hitc.com:22101/cgi-bin/EcDlDpmManageCollGroups.pl Search

Mail AIM Home Radio My Netscape Search Bookmarks

Data Pool Maintenance GUI -- OPS ...

## Data Pool Maintenance

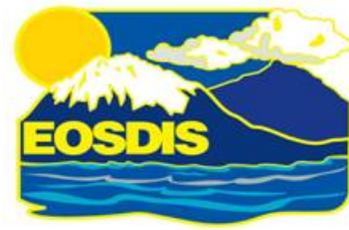
OPS 

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

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

Group ID (Click for managing collections)	Display Name	Description
<a href="#">1</a>	1	Funky, new collection group.
<a href="#">ACRM</a>	ACRM	All collections/granules from the ACRIM mission
<a href="#">AIRA</a>	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission
<a href="#">AMSA</a>	AMSA	AMSR-E collections/granules from the Aqua mission
<a href="#">ASTT</a>	ASTT	ASTER collections/granules from the Terra mission
<a href="#">BRWS</a>	BRWS	Browse collections/granules
<a href="#">DASP</a>	DASP	Data Assimilation System Products

# DPM GUI: Collection Group Detail Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dpl01.hitc.com:22101/cgi-bin/EcDIDpmManageCollections.pl?GroupId=ACRM

Data Pool Maintenance GUI -- OPS ...

## Data Pool Maintenance

OPS 

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

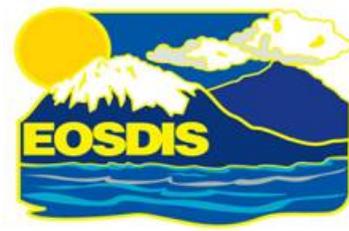
Group ID:ACRM: Display Name:ACRM Description:All collections/granules from the ACRIM mission

File System

**List Of Collections**

Collection (Click for Detail Information)	Version	Science Granules and/or Metadata	Data Pool Insertion	HEG Processing	Export Urls to ECHO	Quality Summary Url	Spatial Search Type	Global Coverage	Day/Night Coverage	24 Hour Coverage	Cloud Coverage
<a href="#">ACR3L0</a>	001	science and metadata	valid for Data Pool	Enabled	No	--	Not supported	Yes	Yes	No	No
<a href="#">ACR3L2DM</a>	001	science and metadata	valid for Data Pool	Enabled	No	--	Not supported	No	Yes	No	No

# DPM GUI: ECS Collection Detail Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmManageCollections.pl?collAction=3&VersionId=1&C Search

Mail AIM Home Radio My Netscape Search Bookmarks

Data Pool Maintenance GUI -- OPS ...



## Data Pool Maintenance



[Home Page](#)   [Batch Summary](#)   [List Insert Queue](#)   **[Collection Groups](#)**   [Themes](#)   [Data Pool File Systems](#)

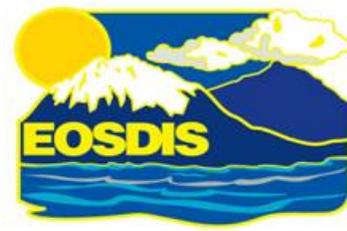
[Cloud Cover](#)   [Configuration Parameters](#)   [Aging Parameters](#)   [Help](#)

**Group ID: ACRM Display Name: ACRM Description: All collections/granules from the ACRM mission**

Detail Information	
Collection	ACR3L0
Version	1
Description	This file contains Level 0 total solar irradiance data gathered by the ACRIM instrument on the ACRIMSAT satellite.
File System	DEFAULT
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Inserts
HEG Processing	Enabled
Export Urls to ECHO	No
Quality Summary Url	
Spatial Search Type	NotSupported

Done

# DPM GUI: Modify Collection Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dp101.hitc.com:22101/cgi-bin/EcDIDpmManageCollections.pl?collAction=2&Collection=ACF Search

Mail AIM Home Radio My Netscape Search Bookmarks

Data Pool Maintenance GUI -- OPS ...



## Data Pool Maintenance

OPS 

[Home Page](#)[Batch Summary](#)[List Insert Queue](#)[Collection Groups](#)[Themes](#)[Data Pool File Systems](#)

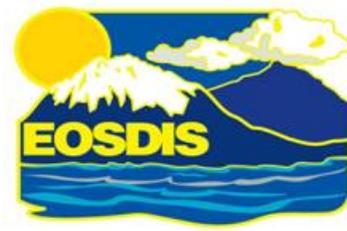
[Cloud Cover](#)[Configuration Parameters](#)[Aging Parameters](#)[Help](#)

**Group ID:ACRM: Display Name:ACRM Description:**All collections/granules from the ACRM mission

**Modify Collection**

<b>Collection</b>	ACR3L0
<b>Version</b>	1
<b>Description</b>	This file contains Level 0 total solar irradiance data gathered by the ACRIM instrument on the ACRIMSAT satellite.
<b>File System</b>	DEFAULT <input type="button" value="v"/>
<b>Science Granules and/or Metadata</b>	Science and Metadata <input type="button" value="v"/>
<b>Data Pool Insertion</b>	Valid for Data Pool Insert <input type="button" value="v"/>
<b>HEG Processing</b>	Enabled
<b>Export Update ECHO</b>	No <input type="button" value="v"/>

# DPM GUI: Collections Not in Data Pool Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dp101.hitc.com:22101/cgi-bin/EcDlDpmManageCollections.pl?collAction=4&GroupId=ACRM Search

Mail AIM Home Radio My Netscape Search Bookmarks

Data Pool Maintenance GUI -- OPS ...

## Data Pool Maintenance

OPS

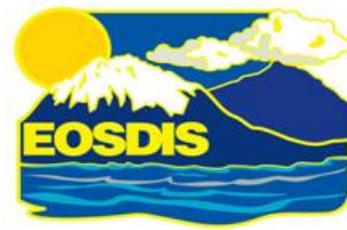
[Home Page](#) [Batch Summary](#) [List Insert Queue](#) **[Collection Groups](#)** [Themes](#) [Data Pool File Systems](#)  
[Cloud Cover](#) [Configuration Parameters](#) [Aging Parameters](#) [Help](#)

Group ID:ACRM; Display Name:ACRM; Description:All collections/granules from the ACRIM mission

Collections Not In Data Pool		
Collection (Click on collection to add)	Version	Description
<a href="#">AIRABDBR</a>	002	AIRS/Aqua AMSU L1B daily summary browse product
<a href="#">AIRABDBR</a>	003	AIRS/Aqua AMSU L1B daily summary browse product
<a href="#">AIRABQAP</a>	002	AIRS/Aqua AMSU-A1 and AMSU-A2 combined detailed QA for geolocated and calibrated brightness temperatures in Kelvins
<a href="#">AIRABRAD</a>	003	AIRS/Aqua AMSU-A1 and AMSU-A2 combined geolocated and calibrated brightness temperatures in Kelvins
<a href="#">AIRHBRAD</a>	077	AIRS/Aqua HSB geolocated and calibrated brightness temperatures in Kelvins
<a href="#">AIRI2CCF</a>	003	AIRS/Aqua FINAL AIRS Level 2 Cloud Clear Radiance Product Calibrated and Geolocated for each AMSU-A footprint (Without HSR)

Done

# DPM GUI: Add New Collection Page

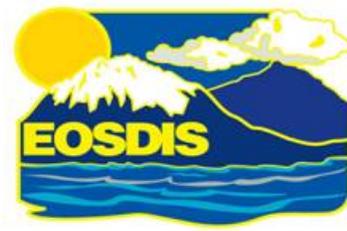
A screenshot of a Netscape browser window displaying the "Data Pool Maintenance" web application. The browser title bar reads "Data Pool Maintenance GUI -- OPS MODE - Netscape". The address bar shows the URL: "http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmManageCollections.pl?collAction=1&Collection=AIR". The browser's menu bar includes "File", "Edit", "View", "Go", "Bookmarks", "Tools", "Window", and "Help". The browser's toolbar contains navigation buttons (back, forward, home, stop), a search box, and a "Search" button. The browser's status bar at the bottom shows "Done".  
  
The web application interface has a teal header with the title "Data Pool Maintenance" in the center. On the left and right sides of the header are small logos. Below the header is a navigation menu with the following items: "Home Page", "Batch Summary", "List Insert Queue", "Collection Groups" (highlighted), "Themes", "Data Pool File Systems", "Cloud Cover", "Configuration Parameters", "Aging Parameters", and "Help".  
  
The main content area displays the following information:  

Group ID:ACRM. Display Name:ACRM Description:All collections/granules from the ACRIM mission

**Add New Collection**

Collection	AIRABDER
Version	2
Description	AIRS/Aqua AMSU L1B daily summary browse product
File System	SELECT
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Invalid for data pool
Export Urls to ECHO	No
Quality Summary Url	

# DPM GUI: Add Collection Group Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dp101.hitc.com:22101/cgi-bin/EcD/DpmManageCollGroups.pl?collAction=1

Data Pool Maintenance GUI -- OPS ...

## Data Pool Maintenance

OPS

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[Cloud Cover](#)   [Configuration Parameters](#)   [Aging Parameters](#)   [Help](#)

### Add Collection Group

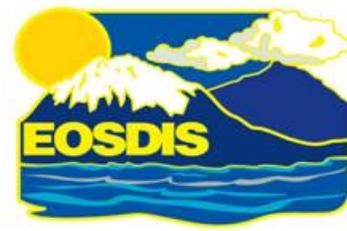
Group ID	Display Name (Optional)	Description
<input type="text"/>	<input type="text"/>	<input type="text"/>

[Return to previous page](#)  

NOTE: The Display Name will default to the GroupID unless specifically set to something else.

start   Kenneth L. Pri...   2 Netscape   Ingest\_08   4 Internet ...   Microsoft Po...   611-16INGES...   10:28 AM

# DPM GUI: Modify Collection Group Page



**Data Pool Maintenance GUI -- OPS MODE - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmManageCollGroups.pl?collAction=2

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

### Modify Collection Group

Group ID (Click to manage collection)	Display Name	Description	Check Box to Mod
1	1	Funky, new collection group.	<input type="checkbox"/>
<a href="#">ACRM</a>	ACRM	All collections/granules from the ACRIM mission	<input type="checkbox"/>
<a href="#">AIRA</a>	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission	<input type="checkbox"/>
<a href="#">AMSA</a>	AMSA	AMSR-E collections/granules from the Aqua mission	<input type="checkbox"/>
<a href="#">ASTT</a>	ASTT	ASTER collections/granules from the Terra mission	<input type="checkbox"/>
<a href="#">BRWS</a>	BRWS	Browse collections/granules	<input type="checkbox"/>