

625-EMD-205

## **EOSDIS Maintenance and Development Project**

# **Training Material for the EMD Project Volume 5: Archive Processing**

Revision --

May 2008

Raytheon Company  
Riverdale, Maryland



# Training Material for the EMD Project Volume 5: Archive Processing

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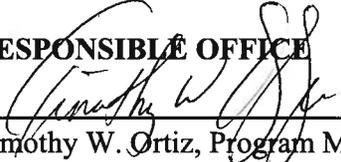
Prepared Under Contract NAS5-03098  
CDRL Item 23

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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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# Abstract

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This is Volume 5 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 required to perform the tasks associated with archive functions.

**Keywords:** training, instructional design, course objective, archive,, granule deletion tool, Spatial Subscription Server, Data Pool, Data Pool maintenance, Release 7.21

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# Contents

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## Preface

## Abstract

## Contents

## Introduction

Identification.....	1
Scope.....	1
Purpose.....	1
Status and Schedule .....	1
Organization.....	1

## Related Documentation

Parent Documents .....	3
Applicable Documents.....	3
Information Documents .....	3
Information Documents Referenced.....	3
Information Documents Not Referenced.....	4

## Archive Processing Overview

Lesson Overview .....	5
Lesson Objectives .....	5
Importance .....	8

## Slide Presentation

Slide Presentation Description.....	9
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# Introduction

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## Identification

Training Material Volume 5 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 5 describes the process and procedures associated with Archive Processing. It describes archive hardware, software, and data. In addition, it addresses starting and shutting down the tape archive control software, monitoring archive requests, and performing archive management tasks. 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 data archiving. 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 this Student Guide and 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. Slide Presentation is reserved for all slides 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-200	Release 7.21 Operations Tools Manual for the EMD Project
611-EMD-200	Release 7.21 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-200	Release 7.21 Segment/Design Specification for the EMD Project (Available August 2008)
311-EMD-200	Release 7.21 INGEST (INS) Database Design and Schema Specifications for the EMD Project (Available August 2008)
311-EMD-203	Release 7.21 Systems Management Subsystem Database Design and Schema Specifications for the EMD Project (Available August 2008).
311-EMD-204	Release 7.21 Order Manager Database Design and Database Schema Specifications for the EMD Project (Available August 2008).
311-EMD-205	Release 7.21 Spatial Subscription Server (SSS) Database Design and Schema Specifications for the EMD Project (Available August 2008)
311-EMD-206	Release 7.21 Data Pool Database Design and Schema Specifications for the EMD Project (Available August 2008)
311-EMD-207	Release 7.21 Inventory (EcInDb) Database Design and Schema Specifications for the EMD Project

# Archive Processing Overview

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## Lesson Overview

This lesson reviews the process of archiving data, including a description of processing for working with the File Storage Management System (FSMS) software, monitoring the ingest/archiving/distribution performance, managing archive content and capacity, maintaining configuration of peripherals and data servers, backing up and restoring archived data, documenting and troubleshooting archive errors, maintaining the archive processing queue (storage and retrieval), and providing archive status.

## Lesson Objectives

**Overall Objective** - The overall objective of this lesson is proficiency in the methodology and procedures for archive processing in the Earth Observing System Data and Information System (EOSDIS) Core System (ECS) during maintenance and operations. The lesson includes a description of processing for monitoring the ingest/archival/distribution performance, maintaining configuration of peripherals and data servers, documenting archive errors, maintaining the archive processing queue (both storing and retrieval), managing archive content and capacity, submitting new data archive requests to the Science Coordinator, and providing archive status.

**Specific Objective 1** - The student will list DAAC operator positions for Archive Manager personnel interfaces and identify responsibilities associated with each interface.

**Condition** - The student will be given a list of DAAC operators.

**Standard** - The student will select four personnel positions with which the Archive Manager interfaces and list at least one major area of responsibility for each selected position.

**Specific Objective 2** - The student will identify the major hardware facility for archival storage and its associated storage cartridges.

**Condition** - The student will be given a copy 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, a working system archive facility, a 9940 tape cartridge, and a 9840 tape cartridge.

**Standard** - The student will correctly point out the StorageTek Library Storage Module (LSM) and its associated 9940 and 9840 tape cartridges.

**Specific Objective 3** - The student will describe the File Storage Management System (FSMS) software.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project.

**Standard** - The student will identify the FSMS software as the StorNext, correctly describe StorNext by stating its nature as a UNIX file system installed on an SGI XL computer, and state the five steps in the StorNext control path without error.

**Specific Objective 4** - The student will start the StorNext tape archive system.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility.

**Standard** - The student will operate the StorNext control panels, power up the archive hardware, and then boot StorNext host and start StorNext without error and in accordance with documented procedures.

**Specific Objective 5** - The student will shut down the StorNext tape archive system.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will terminate StorNext and shut down the LSM without error and in accordance with documented procedures.

**Specific Objective 6** - The student will use manual mode to enter the LSM.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will vary the LSM offline, enter the LSM, leave the LSM, and vary the LSM back online, without error, in accordance with documented procedures, and following all required safety precautions.

**Specific Objective 7** - The student will describe the relationships between Earth Science Data Types (ESDTs), Logical Volume Groups (LVGs) in the Archive, and physical archive volume groups.

**Condition** - The student will be given a diagram depicting the relationships.

**Standard** - The student will correctly explain the logical and physical structure of archive storage for the system.

**Specific Objective 8** - The student will describe the process of, and monitor the progress of, inserting new data into the archive.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will describe without error the process of inserting new data into the archive.

**Standard** - The student will perform without error and in accordance with documented procedures the procedures relating to monitoring retrieval of data from the archive.

**Specific Objective 9** - The student will use the granule deletion capability to delete granules from the archive and inventory.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will perform without error and in accordance with documented procedures the procedure for deleting granules from the archive and inventory.

**Specific Objective 10** - The student will perform automatic and manual loading of archive storage cartridges.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, a working system archive facility with StorNext started, and 9940 tape cartridges, and 9840 tape cartridges.

**Standard** - The student will perform procedures for automatic and manual loading of the proper cartridges for the LSM without error and in accordance with documented procedures.

**Specific Objective 11** - The student will create a backup for archived data.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will correctly and in accordance with documented procedures perform a backup of archived data.

**Specific Objective 12** - The student will replace a full Backup Volume.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will perform without error and in accordance with documented procedures the procedures for replacing the Backup Volume (Volume 1).

**Specific Objective 13** - The student will manually create a replacement backup for an archive data tape.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility with StorNext started.

**Standard** - The student will perform without error and in accordance with documented procedures the procedures for manually creating a replacement backup for an archive data tape.

**Specific Objective 14** - The student will “restore” archive data by inserting a backup copy cartridge.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility.

**Standard** - The student will perform without error the procedure for inserting a backup copy cartridge to replace a lost archive data tape.

**Specific Objective 15** - The student will to display what is in the StorNext queue.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility.

**Standard** - The student will perform without error and in accordance with documented procedures the procedure for viewing what is in the StorNext queue.

**Specific Objective 16** - The student will display StorNext messages from the system log file.

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility.

**Standard** - The student will perform without error and in accordance with documented procedures the procedure for using the *StorNext\_log* script to display StorNext messages from the system log file.

**Specific Objective 17** - The student will launch and use the StorNext Graphical User Interface (GUI).

**Condition** - The student will be given a copy of 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility.

**Standard** - The student will successfully start the StorNext GUI, display icons and data for volume groups and volumes, and execute procedures for modifying volume groups and volumes without error and in accordance with documented procedures.

**Specific Objective 18** - The student will perform the functions required to maintain the Data Pool, including tasks with the Data Pool Maintenance (DPM) GUI (monitor Data Pool active insert processes; monitor/cancel data pool insert actions; suspend and resume Data Pool actions; check the Data Pool insert queue; toggle the state of the NoFreeSpace flag; configure the number of allowed active insert processes; configure the default retention period and the default retention priority; view and update collection groups in the Data Pool database; list/add/delete a theme), tasks with utilities and scripts (extend the period of retention for selected science granules already in the Data Pool; set up a schedule and cron job for Data Pool cleanup; manually invoke Data Pool cleanup; set up a schedule and cron job for Data Pool access statistics accumulation; manually invoke the Data Pool access statistics utility), and tasks with the Spatial Subscription Server (NBSRV) GUI (extend the period of retention in a Data Pool insert subscription; update a subscription; view/add/cancel a bundling order; view statistics on processing of events and actions by the Spatial Subscription Server).

**Condition** - The student will be given a copy 609-EMD-200, Release 7.21 Operations Tools Manual for the EMD Project, and a copy of 611-EMD-200, Release 7.21 Mission Operation Procedures for the EMD Project, and a working system archive facility.

**Standard** - The student will use the GUI tools, scripts, and utilities without error in accordance with applicable procedures to perform the required Data Pool maintenance functions.

## **Importance**

The Archive Manager's role in maintaining the archive data is key to the successful implementation and operation of the system. Ensuring the smooth operation of the archive is crucial for system core functionality.

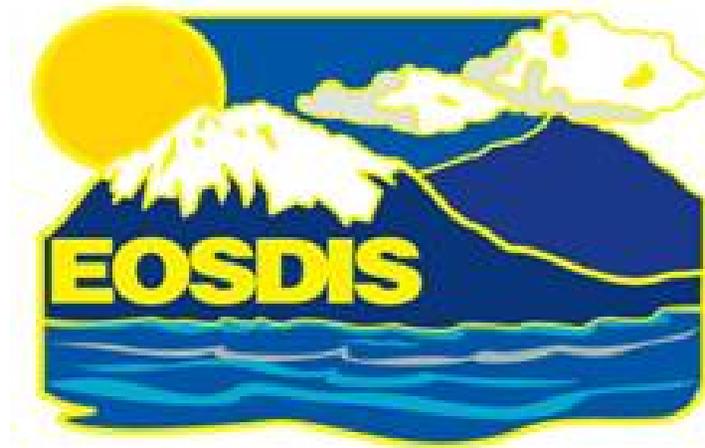
# Slide Presentation

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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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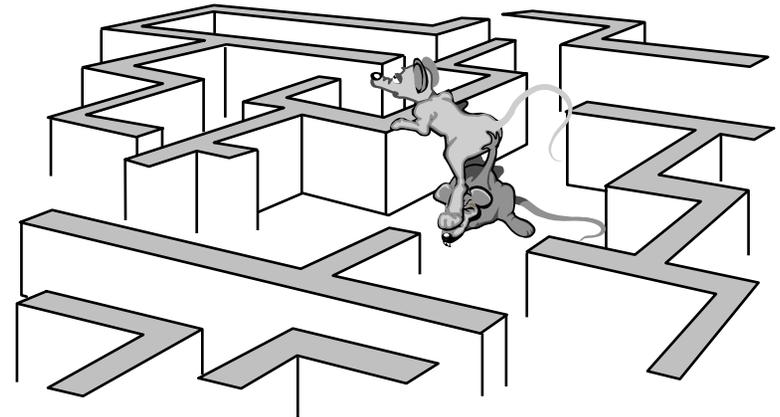


# Archive Processing

April 2008

# Overview of Lesson

- **Introduction**
- **Archive Processing Topics**
  - **Archive Hardware and Software**
  - **Delete Granules**
  - **Data Pool Management and Maintenance**



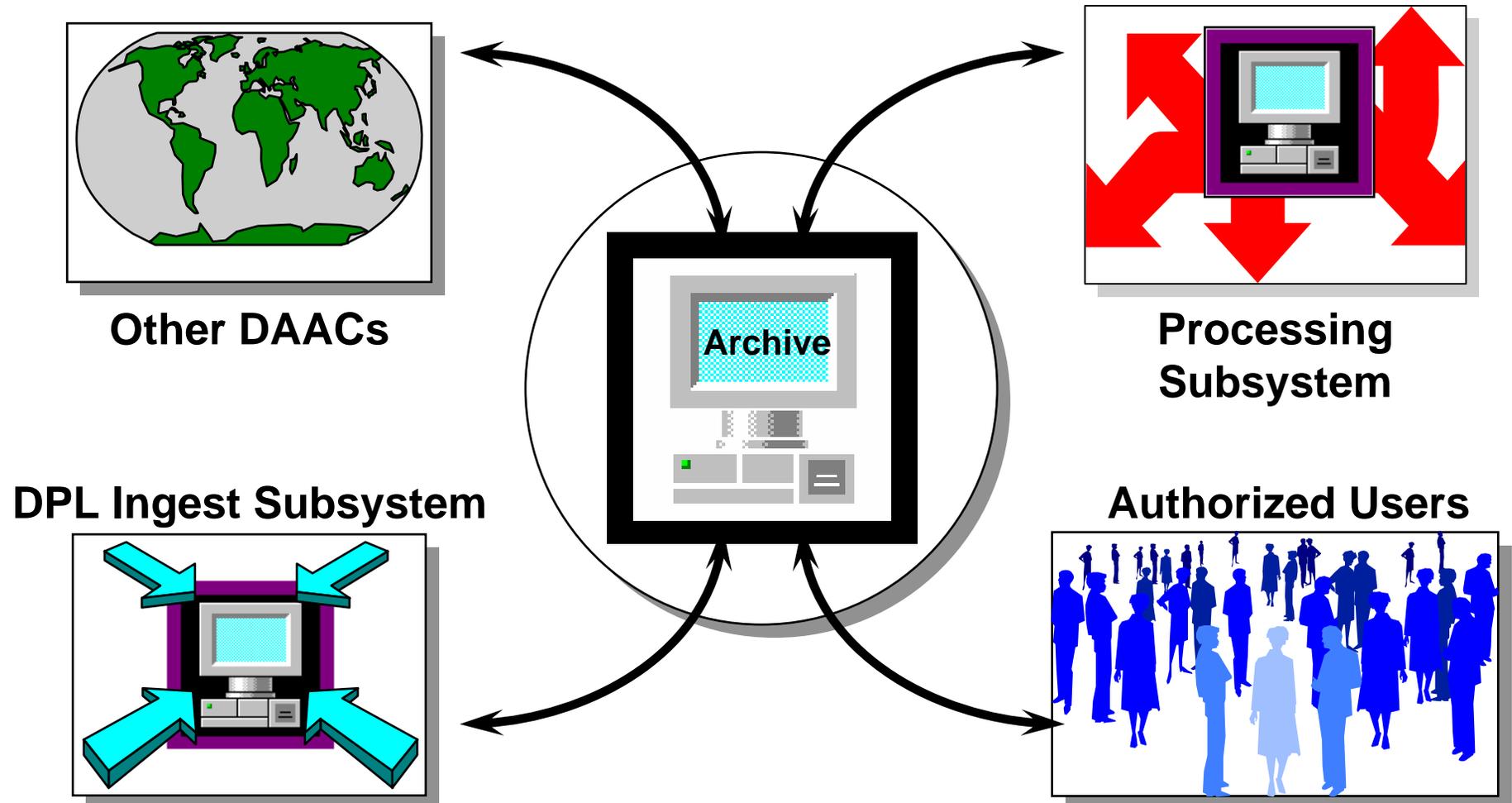
# Objectives

- **Overall: Proficiency in Archive Processing**
  - Describe Archive Manager roles and responsibilities
  - Identify and describe Archive storage resources
  - Describe archive storage element relationships and archive resource management
  - Use Granule Deletion tool to delete granules
  - Delete files from the archive
- **Overall: Proficiency in Archive Processing (Cont.)**
  - Use GUIs, utilities, and scripts for Data Pool maintenance

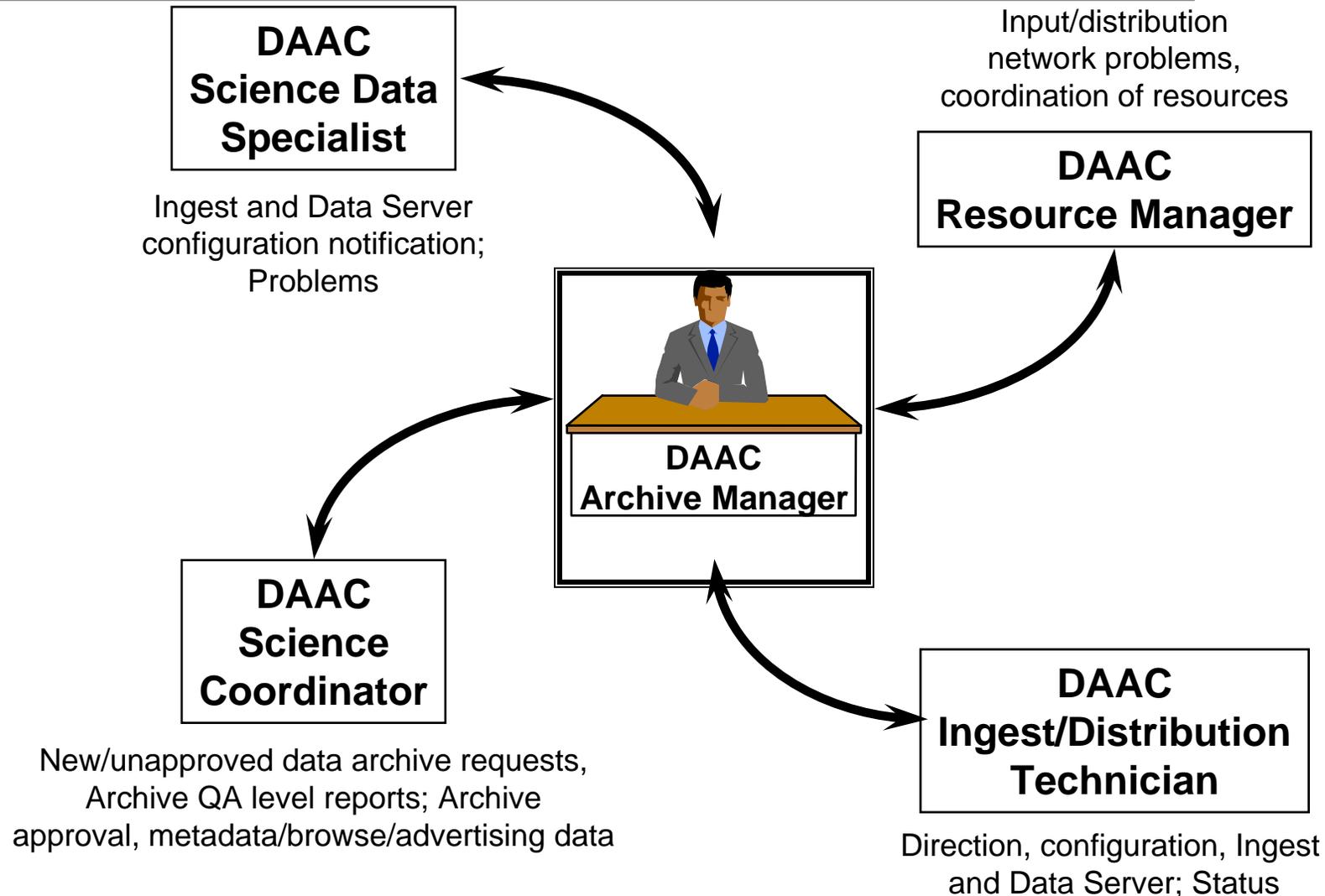
# Objectives (Cont.)

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

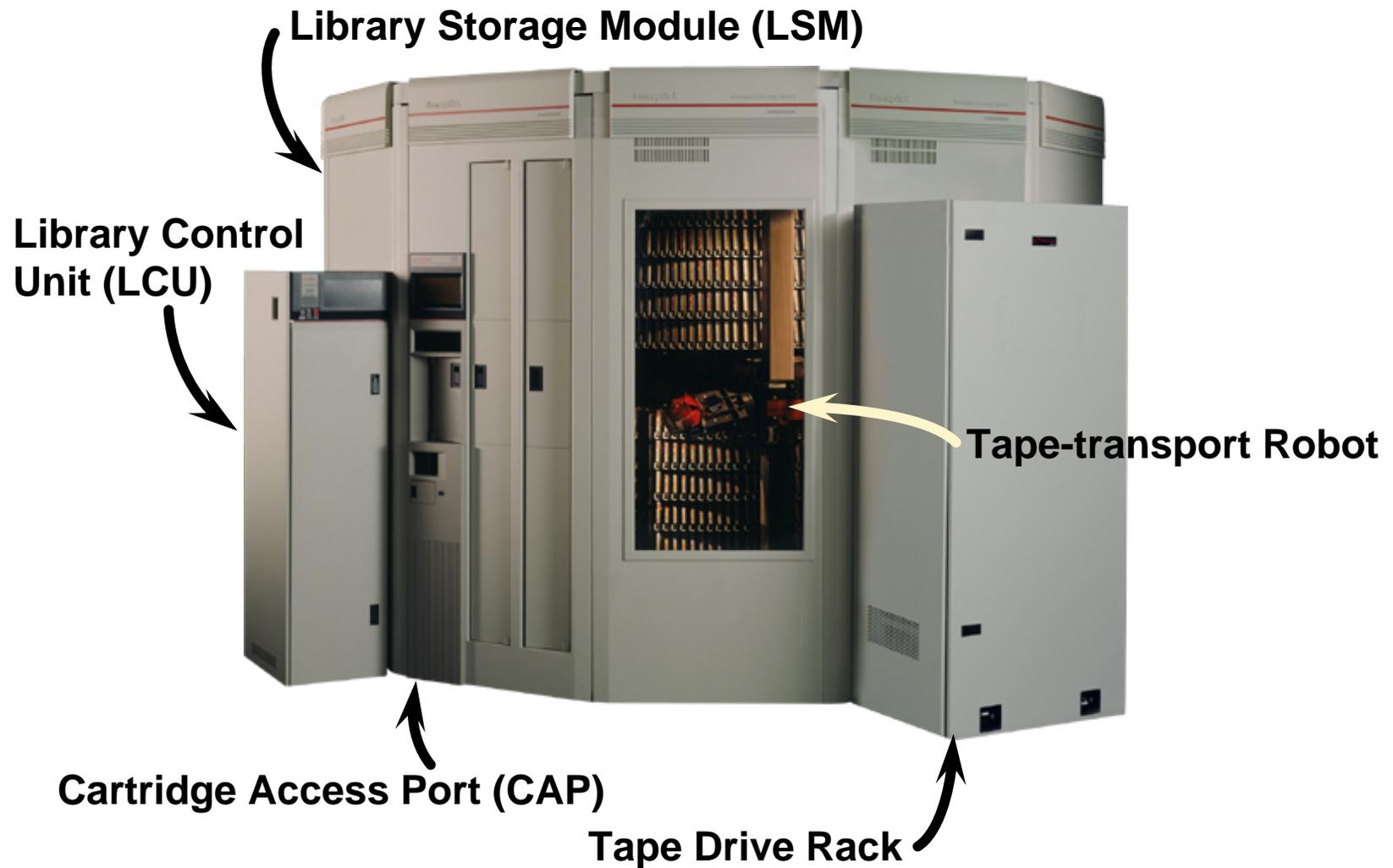
# Sources and Uses of Archive Data



# DAAC Archive Manager Interfaces



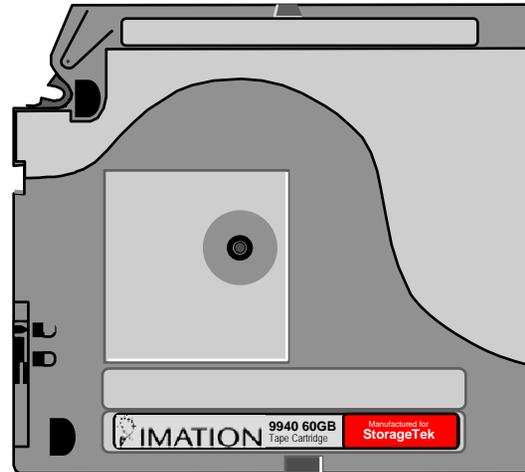
# STK Powderhorn Data Storage



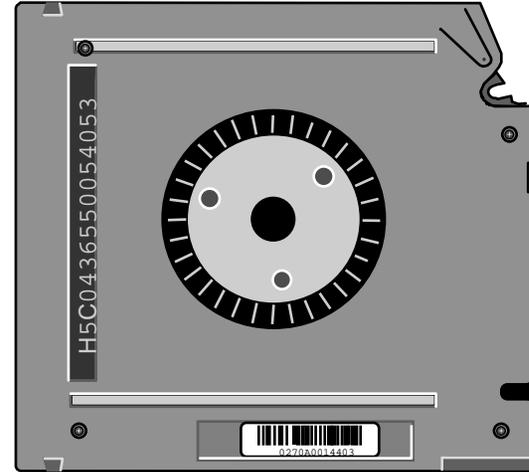
# STK 9940 Tape System



9940 Tape  
Drives

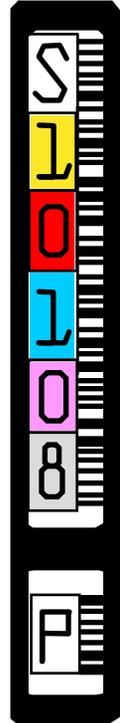


Front



Back

- 10 MB/sec uncompressed sustained data transfer rate
- 60 GB capacity per cartridge (uncompressed)
- 10-sec load time
- 50-sec search/access



End View with  
Barcode

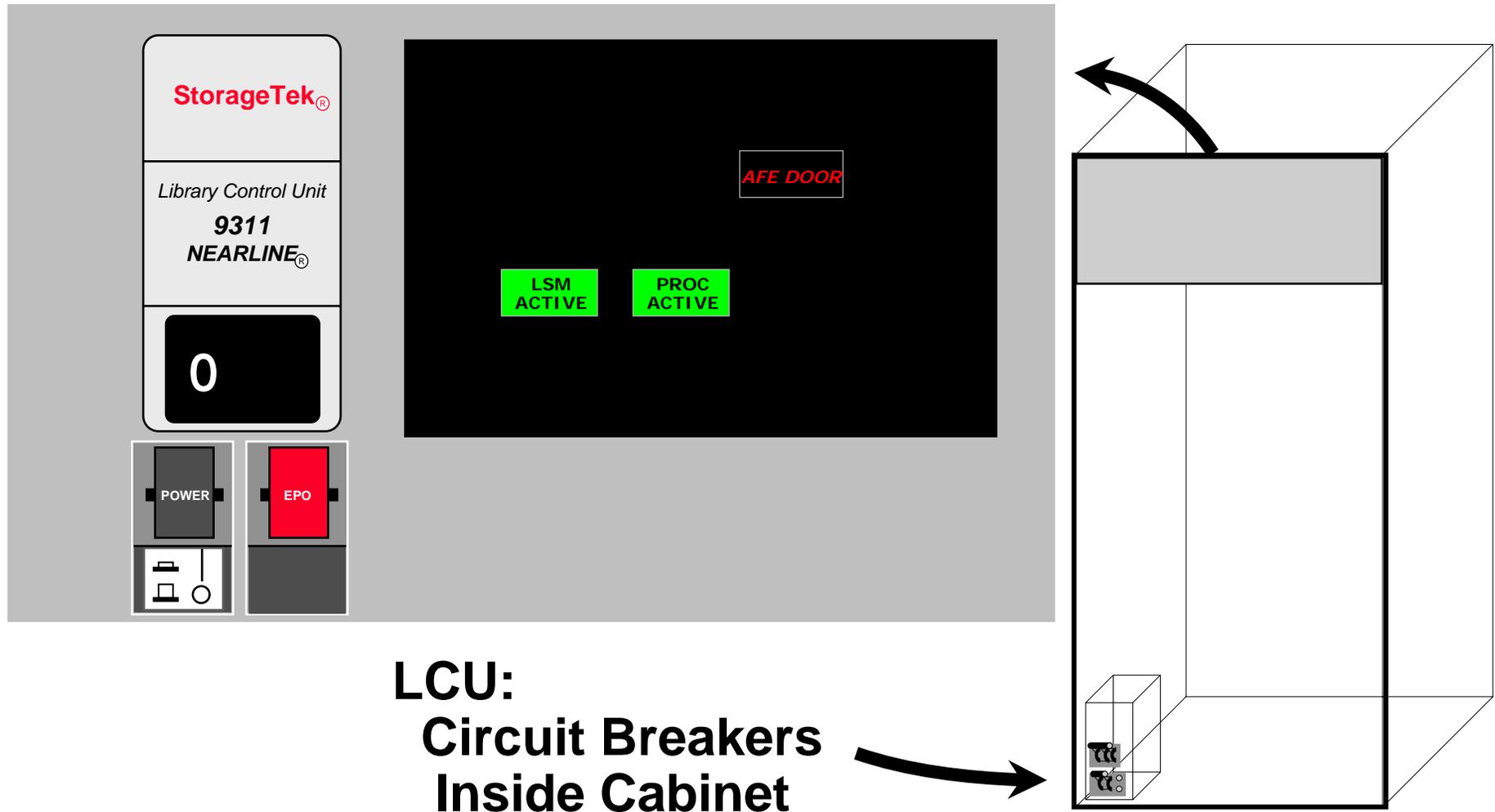
# Automated Cartridge System Library Software (ACSL)

<b>Command</b>	<b>Function</b>
Audit	Creates or updates the database inventory of the volumes in a library component.
Cancel	Cancels a current or pending request.
clear lock	Removes all active and pending locks on transports or volumes.
Dismount	Dismounts a volume.
Eject	Ejects one or more volumes from the Automated Cartridge System (ACS).
Enter	Sets a Cartridge Access Port (CAP) to enter mode.
Idle	Stops ACSLS from processing new requests.
Lock	Locks (dedicates) a volume or transport to a user.
Logoff	Exits the command processor.
Mount	Mounts a data or scratch volume.
Query	Displays the status of a library component.
Set	Sets various attributes of different library components.
Show	Displays your lock ID or user ID.
Start	Starts ACSLS request processing.
Unlock	Removes active locks on volumes or transports.
Vary	Changes the state of an ACS, LSM, CAP, transport, or port.
Venter	Enters one or more volumes with missing or unreadable labels into the ACS.

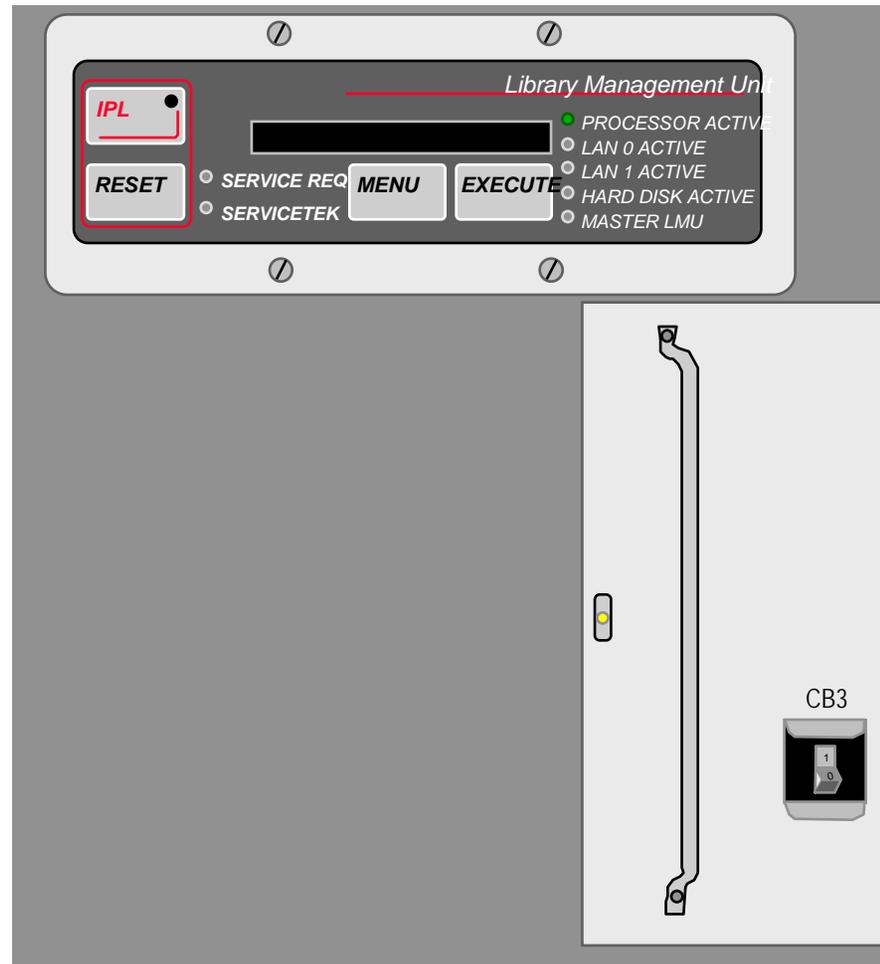
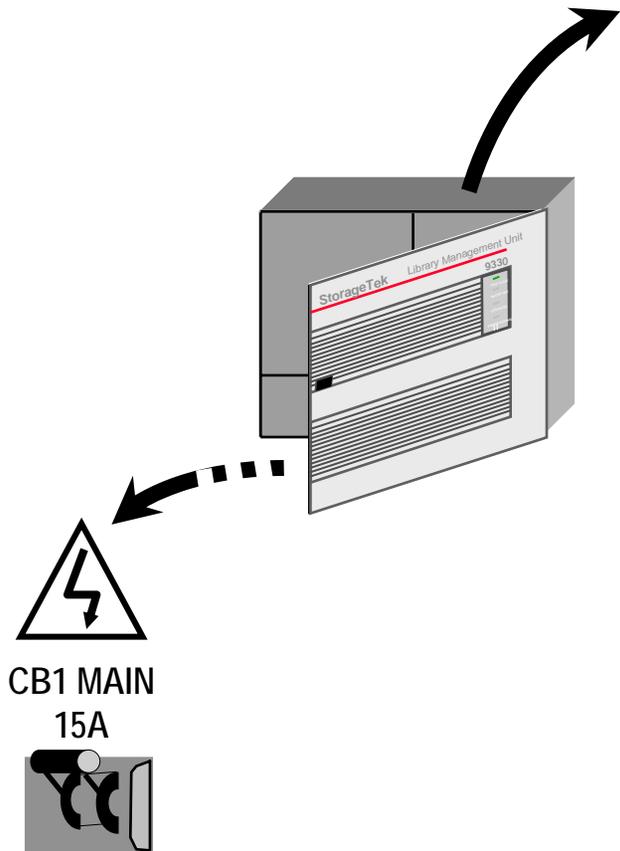
# Automated Cartridge System Library Software (ACSL) (Cont.)

- **General Command Syntax:**
  - `command type_identifier state [options]`
- **Frequently used commands:**
  - `query`, `vary`, `enter`, `eject`
- **Utilities:**
  - `bdb.acsss` -- back up the ACSLS database
  - `kill.acsss` -- terminate ACSLS
  - `rc.acsss` -- start and recover ACSLS
  - `rdb.acsss` -- restore the ACSLS database
  - `db_command` -- start/stop ACSLS database
- **User Ids:**
  - `acssa` -- enter commands
  - `acsss` -- run utilities from UNIX

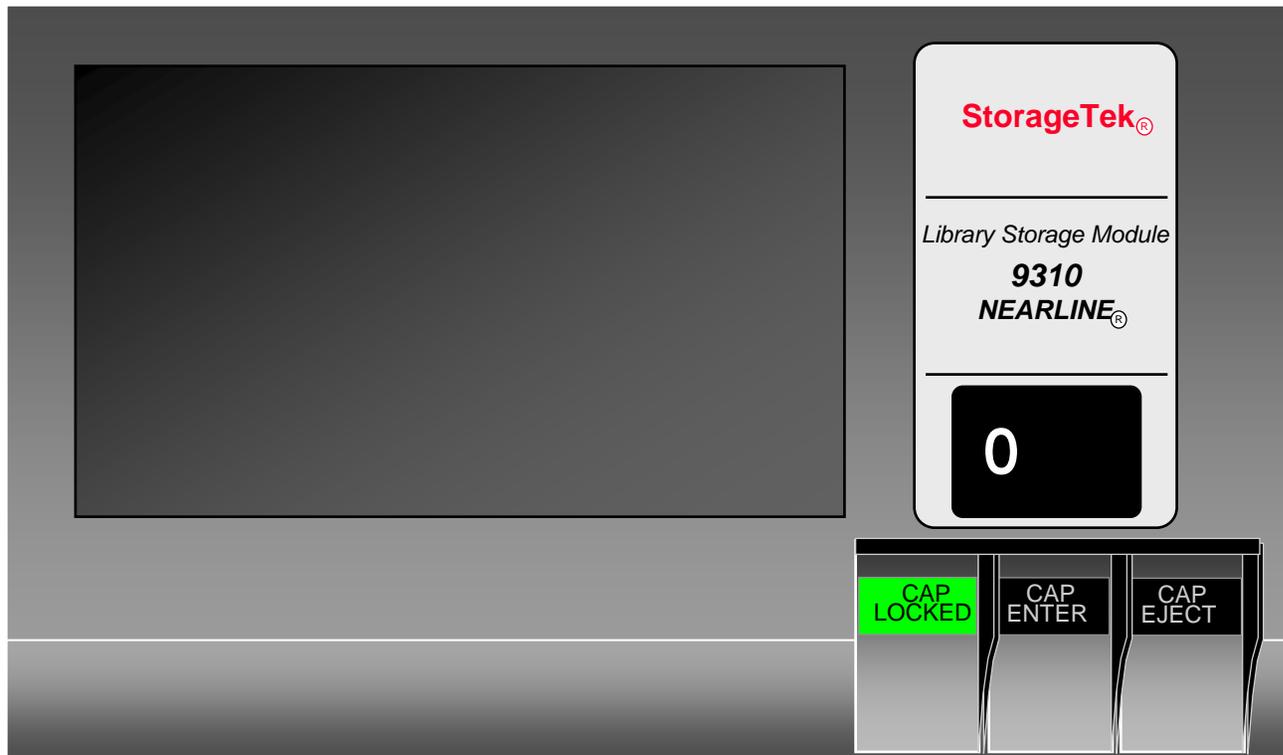
# STK Controls/Displays: LCU



# STK Controls/Displays: LMU



# STK Controls/Displays: LSM



# StorNext Application

- **Archive operations rely on both custom and commercial off the shelf (COTS) software for complete mass storage archive management, providing the capability to accept Graphical User Interface (GUI) and command line interface inputs, and to interpret them to the appropriate level needed to control and monitor archive operations. The StorNext Storage Manager (SNSM) software is a product of Quantum. Quantum, which acquired ADIC, is the vendor for both the StorNext File System and the StorNext Storage Management products.**
- **The purpose of SNSM in the system is to provide an easy-to-use interface to a large tape archive. StorNext manages files, volumes (media), drives and jukeboxes. It allows UNIX File System (UFS) access methods to be employed (e.g., ftp, rcp, uucp, nfs, RPC, cp, mv and native commands) while removing some of the limitations of the UFS. Primary among these is reliance on UNIX Index Node (inode) structures. StorNext maintains all inode information in database files rather than in associated disk structures. This minimizes or eliminates many of the file search problems inherent in searching large numbers of files in multiple directories.**

# StorNext Application

## Starting and Stopping StorNext

- The ECS System contains both managed (Hericharchal Storage Manager) and unmanaged StorNext File Systems. In order for the ECS System to function properly you need to start/stop both. They can be started/stopped from the Linux command line or from the GUI provided by the vendor.
- To start StorNext Manager Server (*this must be started first*) from the command line prompt: (as superuser or root)
  - 1 Logon to the active metadata server (x4smvaa). Using x4smvaa will log you into the active (x4sml01 (primary) or x4sml02 (failover/secondary))
  - # /etc/init.d/cvfs start
  - 2 Verify that the StorNext Manager Server is active with the command
  - #ps -ef | grep cvfs
- To start StorNext Manager Clients from the command line prompt: (as superuser or root)
  - 3 Logon to the each client hosts .
  - # /etc/init.d/cvfs start
  - 4 Verify that the StorNext Manager Server is active with the command
  - #ps -ef | grep cvfs

# StorNext Application

To start StorNext Manager Server (*this must be started first*) from the command line prompt: (as superuser or root)

- Logon to the active metadata server (x4smvaa). Using x4smvaa will log you into the active (x4sml01 (primary) or x4sml02 (failover/secondary))

```
# /etc/init.d/cvfs start
```

- Verify that the StorNext Manager Server is active with the command

```
#ps -ef | grep cvfs
```

To start StorNext Manager Clients from the command line prompt: (as superuser or root)

- Logon to the each client hosts .

```
# /etc/init.d/cvfs start
```

- Verify that the StorNext Manager Server is active with the command

```
#ps -ef | grep cvfs
```

# StorNext Application

- **To bring the StorNext System, you must stop both the server and its clients. The Clients must all be stopped first.**
- **To Stop the StorNext Clients**
  - **Log in as root (system administrator) into each StorNext Metadata Client.**  
*/etc/init.d/cvfs stop*
  - **Check to ensure client has been stopped**  
**#ps -ef | grep cvfs**  
**(NOTE : MAKE SURE THAT ALL CLIENTS ARE STOPPED)**
- **To Stop the StorNext Server**
  - **Log in as root (system administrator) into the active StorNext Metadata Server (x4smvaa).**
  - **To stop StorNext Server, type:**  
**#/etc/init.d/cvfs stop**
  - **Check to ensure server has been stopped**  
**#ps -ef | grep cvfs**

# StorNext GUI Home Page

- The StorNext Home GUI is Web based, and can be accessed by any Web enabled machines with the proper Java libraries. To start the StorNext Manager and its Clients from the GUI:

The screenshot displays the StorNext GUI Home Page. The interface includes a navigation menu on the left with options: Home, SNFS, and SNSM. The main content area is divided into three sections:

- File System Monitor:** A table showing system metrics for 'snfs1'. The table has columns for File System, Total Space (GB), Used Space (GB), Free Space (GB), Total Files, # Stages, # Trunc, # Candidates, # Connections, and Status. The 'snfs1' row shows 12.50 GB total space, 2.40 GB used, 10.10 GB free, and 214 files.
- Library Monitor:** A table showing library status. The table has columns for Library, Library Type, Library State, Number of Drives, Capacity, and Fill Level. The 'snfs1' row shows a Vault library type, Online state, 0 drives, 500000 capacity, and 0 fill level.
- Storage Disk Monitor:** A table showing disk status. The table has columns for Name, Speed (MB), Used Space (GB), State, Copy #, and # Files. The 'Storage\_Disk\_1' row shows a speed of 27.44 MB, 0.50 GB used space, and a state of 'Crane'.

The bottom of the screen shows a status bar with 'System Status' and 'StorNext Server Active'.

# StorNext GUI Admin Drop Down

The screenshot displays the StorNext GUI Admin interface. At the top, there is a navigation bar with 'edc Intelligent Storage™' on the left, 'StorNext' in the center, and 'Home Help' on the right. Below this is a secondary navigation bar with 'Config', 'Admin', 'Reports', 'Service', and 'Help' tabs. The 'Admin' tab is active, showing a dropdown menu with options: 'Access StorNext Logs', 'User Access Control', 'Download Client Software', 'Library Operator Interface', 'Remove/Move Media', 'Run Backup', 'Schedule Events', and 'Start/Stop StorNext'. The main content area is divided into three sections: 'File System', 'Library Monitor', and 'Storage Disk Monitor'. The 'File System' section shows a table with columns for 'File', '# Files', '# Stems', '# Times', and '# Connections'. The 'Library Monitor' section shows a table with columns for 'State', 'Library Name', 'Library Type', 'Number of Drives', 'Capacity', and 'Fill Level'. The 'Storage Disk Monitor' section shows a table with columns for 'State', 'Storage Disk Name', 'Space (GB)', 'Used Space (GB)', 'Copy #', and '# Files'. At the bottom of the interface, there is a 'System Status' indicator showing 'spack' and 'Active'.

**File System**

File	# Files	# Stems	# Times	# Connections
ssh	20	Refresh	Refresh	1
ssh2	8	N/A	N/A	1

**Library Monitor**

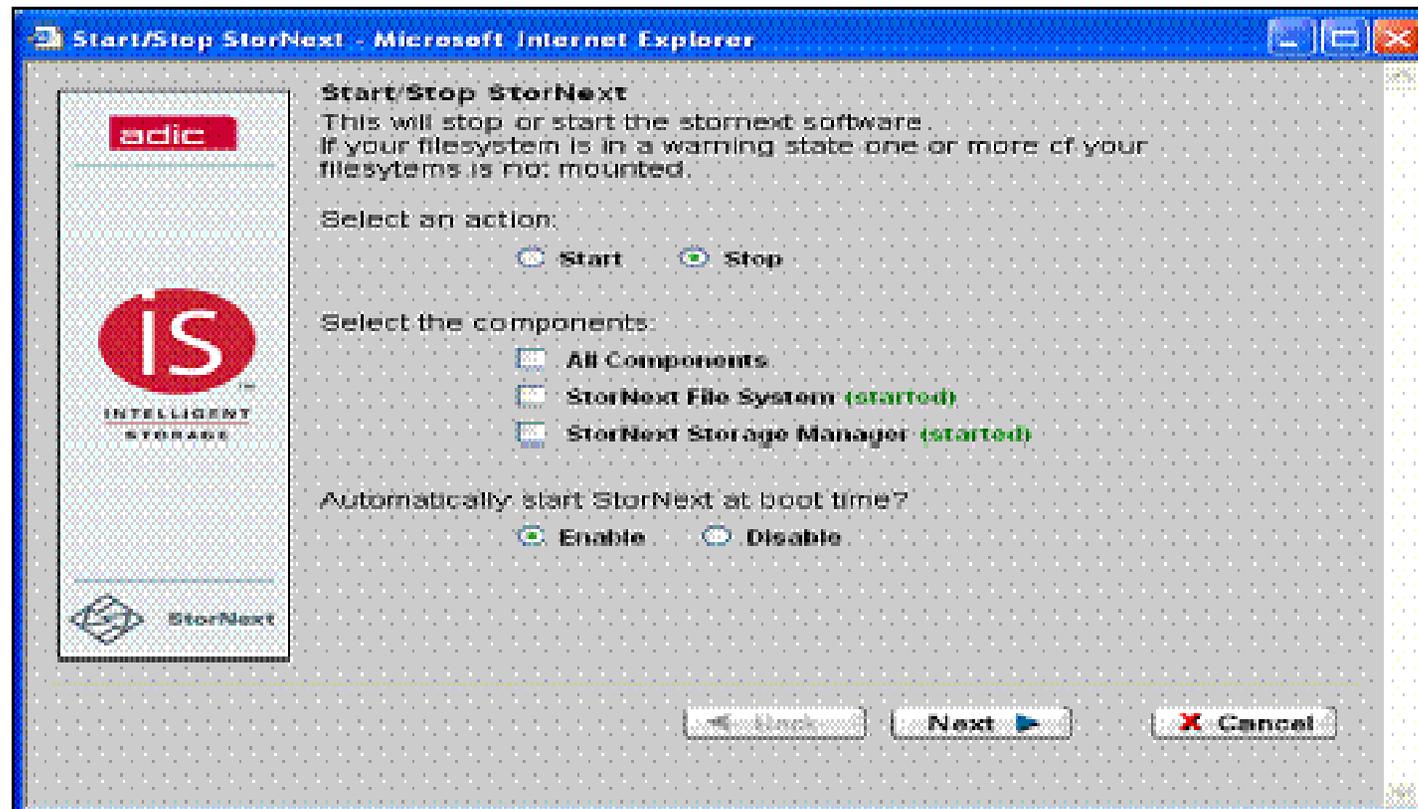
State	Library Name	Library Type	Number of Drives	Capacity	Fill Level
✓	scsi_archive1	SCSI	2	60	19
✓	scsi_archive1_drt	Free			
✓	scsi_archive1_drt	Free			

**Storage Disk Monitor**

State	Storage Disk Name	Space (GB)	Used Space (GB)	Copy #	# Files
✓	Storage_Disk_1	37.65	9.81	3	0

System Status: **spack** ● Active

# StorNext Stop/Start GUI



# Granule Deletion

- **Phases of Granule Deletion**
  - **Logical deletion [marking granules (in the AIM database) for deletion]**
  - **Physical deletion (marking from the Inventory database data concerning granules marked for deletion)**
  - **Actual deletion from the archive (removing from the archive the files identified for deletion in the Inventory database)**

# Granule Deletion (Cont.)

- **Phase 1, Logical Deletion**
  - A GeoID file can be created by using a command-line utility (BulkSearch.pl). The GeoID file is the granule identification file used to mark granules for deletion.
  - For the first phase, a command-line Bulk Delete utility (EcDsBulkDelete.pl) responds to operator-specified criteria for the deletion of granules by "logically" deleting from the inventory (Inventory database) those granules that meet the criteria
- **Phase 2, Physical Deletion**
  - Physical deletion occurs when the operations staff runs the Deletion Cleanup utility (EcDsDeletionCleanup.pl). Script removes all inventory rows (in the Inventory database) for granules that were flagged as "deleted," including rows referencing related information (e.g., BR, PH, and QA) as well as Granules marked for deletion.

# Archive Backups

- **Programmatic backups are part of design requirements**
  - **Active archive copy (use *Archive ID* -- ShortName and VersionID)**
    - e.g., AST\_L1B.001
  - **Local backup storage copy (use *Backup ID*)**
    - Append “B” -- e.g., AST\_L1B.001B
  - **Off-site backup storage copy (use *Offsite ID*)**
    - Append “O” -- e.g., AST\_L1B.001O
- **Archive manager needs to create volume group for offsite backups, using StorNext GUI**
- **Selection of data for backup dependent on factors such as feasibility of recovery by other means (e.g., re-ingest, reprocess)**
- **Each site is responsible for arranging its own secure offsite storage**

# 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:**
    - **Monitoring Data Pool Active Insert Processes and Insert Actions**
    - **Managing Data Pool File Systems**
    - **Managing Cloud Cover Information**
    - **Checking the Status of Batch Inserts**
    - **Checking the Data Pool Insert Queue**
    - **Managing Data Pool Configuration Parameters and Data Pool Tuning**
    - **Managing Data Pool Collection Groups**
    - **Managing Data Pool Collections within Collection Groups**
    - **Managing Themes**

# DPM GUI: Security Login Prompt

Prompt

 Enter username and password for "DPL Realm" at p2dps01.pvc.ecs.nasa.gov:22121

User Name:

Password:

Use Password Manager to remember these values.

# Data Pool Management (Cont.)

- **Features of the Data Pool Maintenance GUI (Cont.)**
  - **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

The screenshot shows the Data Pool Maintenance GUI in Netscape browser. The browser title is "Data Pool Maintenance GUI -- OPS MODE - Netscape". The address bar shows the URL "http://f4dpl01.hitc.com:22101/DataPool.html". The page has a teal header with the title "Data Pool Maintenance" and "OPS" on the right. Below the header is a navigation menu with links: Home Page, Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File Systems, Cloud Cover, Configuration Parameters, Aging Parameters, Help, End Session. A "Refresh Home Page" link is also present.

Configuration options include:

- Screen Refresh Rate: 60 (in Secs) [Apply] Last Screen Refresh on Mon Aug 27 11:31:14 EDT 2007
- Active Insert Processes: 100 rows [Apply]
- Active Insert Status Filter:  Pending  Validated  Copied  Checksummed  Extracted [Apply]

Summary of Data Pool File System(s)

File System Label	Free Space Flag	Availability	Min Freed Space in MB
DEFAULT	State : Y Last changed: Feb 19 2007 10:12AM	State : Y Last changed: Feb 19 2007 10:12AM	10
FS2	State : Y Last changed: Aug 21 2007 1:23PM	State : Y Last changed:	10

Summary of Active Processes

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

# DPM GUI: File System Information Page

**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](#)

File System Information				
File System Label	Absolute Path	Free Space Flag	Availability	Min Freed Space (in Megabytes)
DEFAULT	/datapool/OPS/user/FS1/	State : Y Last changed: Feb 19 2007 10:12AM	State : Y Last changed: Feb 19 2007 10:12AM	10
FS2	/datapool/OPS/user/FS2/	State : Y Last changed: Aug 21 2007 1:23PM	State : Y Last changed:	10

[Add New File System](#) [Modify File System](#)

# DPM GUI: Add New File System Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- OPS MODE - Netscape". The address bar contains the URL "http://f4dp101.hitc.com:22101/cgi-bin/EcDIDpmFileSystem.pl?Add". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The address bar has navigation buttons and a search field. Below the browser window, the main content area has a teal header with the title "Data Pool Maintenance" and "OPS" on the right. A navigation menu includes links for Home Page, Batch Summary, List Insert Queue, Collection Groups, Themes, and Data Pool File Systems. The "Data Pool File Systems" link is highlighted. Below the menu is a form titled "Add New File System" with the following fields:

Add New File System	
Label	<input type="text"/>
Absolute Path	/datapool/OPS/user <input type="text"/>
Free Space Flag	ON <input type="button" value="v"/>
Availability	YES <input type="button" value="v"/>
Min Freed Space (in Megabytes)	<input type="text"/> MB
<a href="#">Return to previous page</a>	<input type="button" value="Apply Change"/>

The browser's status bar at the bottom shows various system icons.

# DPM GUI: Add New File System Information Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- OPS MODE - Netscape". The address bar contains the URL: `http://f4dp101.hitc.com:22101/cgi-bin/EcDlDpmFileSystem.pl?Add`. The page header is teal and features the "Data Pool Maintenance" title, "OPS" text, and a logo. A navigation menu includes links for "Home Page", "Batch Summary", "List Insert Queue", "Collection Groups", "Themes", and "Data Pool File Systems".

The main content area is titled "Add New File System" and contains a form with the following fields:

Label	<input type="text"/>
Absolute Path	/datapool/OPS/user <input type="text"/>
Free Space Flag	ON <input type="button" value="v"/>
Availability	YES <input type="button" value="v"/>
Min Freed Space (in Megabytes)	<input type="text"/> MB
<a href="#">Return to previous page</a>	<input type="button" value="Apply Change"/>

# DPM GUI: Modify File System Information Page

**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](#)

**Modify File System Information**

File System Label	Absolute Path	Free Space Flag	Availability	Min Freed Space (in Megabytes)	Click on box to modify
DEFAULT	/datapool/OPS/user/FS1/	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	10	<input type="checkbox"/>
FS2	/datapool/OPS/user/FS2/	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	10	<input type="checkbox"/>

[Return to previous page](#)

# DPM GUI: Cloud Cover Information Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The address bar contains the URL "http://f4hel01.hitc.com:22181/cgi-bin/EcDIDpmCloudCover.pl". The page header features the "Data Pool Maintenance" title and a "DEV08" label. A navigation menu includes links for "Home Page", "Batch Summary", "List Insert Queue", "Collection Groups", "Themes", "Data Pool File Systems", "Cloud Cover", "Configuration Parameters", "Aging Parameters", and "Help".

The main content area is titled "Cloud Cover Information" and contains a table with the following data:

Source Type	Source Name	Source Description	Check box to delete
Core Metadata	QAPercentCloudCover	test	<input type="checkbox"/>

Below the table, there are links for "Add New Cloud Cover" and "Modify Source Description", and an "Apply Change" button.

# DPM GUI: Add New Cloud Cover Information Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The address bar contains the URL "http://f4he101.hitc.com:22181/cgi-bin/EcDlDpmCloudCover.pl?Add". The page header features the "Data Pool Maintenance" title and "DEV08" version information, along with a logo on the right. A navigation menu includes links for "Home Page", "Batch Summary", "List Insert Queue", "Collection Groups", "Themes", "Data Pool File Systems", "Cloud Cover", "Configuration Parameters", "Aging Parameters", and "Help".

The main content area is titled "Add New Cloud Cover Information" and contains the following form fields:

Source Type	PSA <input type="button" value="v"/>
Source Name	<input type="text"/>
Source Description	<input type="text"/>
<a href="#">Return to previous page</a>	<input type="button" value="Apply Change"/>

The browser's status bar at the bottom shows "Done" and various navigation icons.

# DPM GUI: Modify Source Description Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The address bar contains the URL "http://f4hel01.hitc.com:22181/cgi-bin/EcDlDpmCloudCover.pl?Add". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The toolbar shows navigation buttons, a search box, and icons for Mail, AIM, Home, Radio, My Netscape, and Bookmarks.

The main content area has a teal header with the title "Data Pool Maintenance" and "DEV08" on the right. On the left, there is a logo for "EOS" and "EOS DIS". Below the header is a navigation menu with the following items: [Home Page](#), [Batch Summary](#), [List Insert Queue](#), [Collection Groups](#), [Themes](#), [Data Pool File Systems](#), [Cloud Cover](#), [Configuration Parameters](#), [Aging Parameters](#), and [Help](#).

The main form is titled "Add New Cloud Cover Information" and contains the following fields:

Source Type	PSA <input type="button" value="v"/>
Source Name	<input type="text"/>
Source Description	<input type="text"/>
<a href="#">Return to previous page</a>	<input type="button" value="Apply Change"/>

The status bar at the bottom of the browser shows "Done" and some navigation icons.

# DPM GUI: Batch Summary Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The address bar contains the URL "http://f4hel01.hitc.com:22181/cgi-bin/EcDlDpmBatchSummary.pl". The page header features the "Data Pool Maintenance" title and "DEV08" version information, along with navigation links: Home Page, Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File Systems, Cloud Cover, Configuration Parameters, Aging Parameters, and Help. The main content area is titled "Batch Summary" and includes a "Screen Refresh Rate" section with a text input field containing "1" (in Minutes) and an "ApplyRefreshRate" button. Below this is a table showing the status of a batch labeled "Crit100\_1".

Batch Label	New	Completed	Failed	Retry	Canceled
Crit100_1	0	0	1	0	0

# DPM GUI: List Insert Queue Page

**Data Pool Maintenance** DEV08

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

Inserts Left to Process on Mon Aug 27 11:42:48 EDT 2007

0

Detailed list of Data Pool Inserts using Current Filter (Number in List = 0)

DataSource	BatchLabel	Dispatch Priority	RequestID	SubID	ECSID	Collection	Version	Science Granules and/or Metadata	Enqueue Time	Retries	S
------------	------------	-------------------	-----------	-------	-------	------------	---------	----------------------------------	--------------	---------	---

[Continue](#)

# DPM GUI: List of Configuration Parameters Page

**Data Pool Maintenance GUI -- DEV08 MODE - Netscape**

**Data Pool Maintenance** DEV08

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

**List of Configuration Parameters**

Parameter Name	Parameter Value	Click on Box to Modify Parm
ActionQueueCleanupFrequency	<input type="text" value="600"/> Frequency in seconds when the action queue is checked for completed actions and those older than the configured retention are removed.	<input type="checkbox"/>
AlertCleanupInterval	<input type="text" value="2"/> The time interval in minutes at which expired alert information will be cleaned up.	<input type="checkbox"/>
AlertNotifyEmailAddress	<input type="text" value="peter_leon_s_smith@raytheon.com"/> Email address to send alert message to.	<input type="checkbox"/>
AlertRetentionPeriod	<input type="text" value="1"/> Retention time in number of hours for closed alerts.	<input type="checkbox"/>
AlertRetryInterval	<input type="text" value="30"/> Retry interval in seconds for attempts to automatically clear an alert condition.	<input type="checkbox"/>
AppLogLevel	<input type="text" value="3"/>	<input type="checkbox"/>
BatchSummaryAutoRefresh	<input type="text" value="1"/> Auto Refresh Rate for Batch Summary Screen	<input type="checkbox"/>
ChecksumPercent	<input type="text" value="100"/> Percentage of science files with checksums that will be verified, or without checksums that will have checksum computed.	<input type="checkbox"/>
Clean703Orders	<input type="text" value="Y"/> flag indicating whether DPL should clean up order only granules.	<input type="checkbox"/>

# DPM GUI: Aging Parameters Page

**Data Pool Maintenance** DEV08

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

**List of Aging Parameters**

ECS Priority	Starting Priority	Aging Step	Max Priority	Click on Box to Modify
LOW	60	<input type="text" value="0"/>	<input type="text" value="60"/>	<input type="checkbox"/>
NORMAL	150	<input type="text" value="0"/>	<input type="text" value="150"/>	<input type="checkbox"/>
HIGH	220	<input type="text" value="0"/>	<input type="text" value="220"/>	<input type="checkbox"/>
VHIGH	235	<input type="text" value="0"/>	<input type="text" value="235"/>	<input type="checkbox"/>
XPRESS	255	<input type="text" value="0"/>	<input type="text" value="255"/>	<input type="checkbox"/>

# DPM GUI: Collection Groups Page

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

Data Source	Group ID (Click for managing collections)	Display Name	Description
ECS	<a href="#">ACRM</a>	ACRM	All collections/granules from the ACRIM mission
ECS	<a href="#">AIRA</a>	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission
ECS	<a href="#">AMSA</a>	AMSA	AMSR-E collections/granules from the Aqua mission
ECS	<a href="#">ASTT</a>	ASTT	ASTER collections/granules from the Terra mission
ECS	<a href="#">BRWS</a>	BRWS	Browse collections/granules
ECS	<a href="#">DASP</a>	DASP	Data Assimilation System Products
ECS	<a href="#">DASP2</a>	DASP2	DASP2
ECS	<a href="#">DASP3</a>	DASP3	DASP3

# DPM GUI: List of Collection Page

**Data Pool Maintenance** DEV08

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

Data Source:ECS Group ID:BRWS: Display Name:BRWS Description:Browse collections/granules

File System: ALL

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

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

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

# DPM GUI: ECS Collection Detail Information Page

The screenshot displays a web browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The browser's address bar is empty. The page has a teal navigation bar with the following links: Home Page, Cloud Cover, Batch Summary, Configuration Parameters, List Insert Queue, Aging Parameters, Collection Groups (highlighted), Themes, and Data Pool File Systems. Below the navigation bar, there is a header section with the text: "Data Source:ECS Group ID:BRWS: Display Name:BRWS Description:Browse collections/granules".

The main content area is titled "Detail Information" and contains a table with the following data:

Detail Information	
Collection	Browse
Version	1
Description	The Browse file depicting a browse image of a granule or collection.
File System	DEFAULT
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Inserts
HEG Processing	Disabled
Export Urls to ECHO	No
Quality Summary Url	
Spatial Search Type	NotSupported
Global Coverage	No
Day/Night Coverage	Yes
24Hour Coverage	No
Cloud Cover Type	
Cloud Cover Source	
Cloud Cover Description	

At the bottom of the table, there are two links: [Modify Collection](#) and [Return to previous page](#). The browser's status bar at the bottom shows standard icons for network, mail, and other system functions.

# DPM GUI: Modify Collection Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI -- DEV08 MODE - Netscape". The page header includes the "Data Pool Maintenance" logo and navigation links: Home Page, Cloud Cover, Batch Summary, Configuration Parameters, List Insert Queue, Aging Parameters, **Collection Groups**, Help, Themes, and Data Pool File Systems. The main content area displays the following information:

Data Source:ECS Group ID:BRWS: Display Name:BRWS Description:Browse collections/granules

Modify Collection	
Collection	Browse
Version	1
Description	The Browse file depicting a browse image of a granule or collection.
File System	DEFAULT
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Insert
HEG Processing	Disabled
Export Urls to ECHO	No
Quality Summary Url	
Spatial Search Type	NotSupported
Global Coverage	Yes

# DPM GUI: Collections Not in Data Pool Page

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

Collections Not In Data Pool		
Collection (Click on collection to add)	Version	Description
<a href="#">AE WkOcn</a>	001	AMSR-E/Aqua global ocean level 3 weekly products are on .25 x .25 degree ascending and descending grids. Products generated using the level 2B ocean products as input.
<a href="#">AIRIBDBR</a>	003	AIRS/Aqua LIB daily summary browse product (Cloudy Radiances)
<a href="#">AIRIBRAD</a>	003	AIRS/Aqua AIRS infrared geolocated and calibrated radiances in units of Watts/cm**2/micron/steradian
<a href="#">AIRXSGSM</a>	002	AIRS/Aqua Level 2 Surface Marine matchup per-granule statistics vs. previous retrieval
<a href="#">AIRXSTAT</a>	001	AIRS/Aqua Level 2 per-scan statistics vs. truth
<a href="#">AMSREL1A</a>	086	The Aqua AMSR-E L1A product contains raw observation counts and conversion factors required to compute the antenna temperatures for each of the AMSR-E microwave channels.
<a href="#">AST14DEM</a>	001	ASTER DEM Product

# DPM GUI: Add New [ECS] Collection Page

Data Pool Maintenance GUI -- DEV08 MODE - Netscape

**Data Pool Maintenance** DEV08

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

Data Source: ECS Group ID: ACRM Display Name: ACRM Description: All collections/granules from the ACRM mission

**Add New Collection**

Collection	AIRIBRAD
Version	3
Description	AIRS/Aqua AIRS infrared geolocated and calibrated radiances in units of Watts/cm**2/micron/steradian
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	
Spatial Search Type	Rectangle
Global Coverage	No

# DPM GUI: Modify Collection Group Page

**Data Pool Maintenance**

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

Cloud Cover    Configuration Parameters    Aging Parameters    Help

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"/>

# DPM GUI: Detailed List of Data Pool Themes Page

**Data Pool Maintenance** DEV08

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

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

Web Visible: ALL 
 Insert Enabled: ALL 
 Beginning Letters:

**Detailed list of Data Pool Themes**

Theme Name Description	Web Visible	Insert Enabled	Click on Box to Delete
UAE_2004 United Arab Emirates Unified Aerosol Experiment (UAE) 2004 data products	Yes	Yes	<input type="checkbox"/>
vbvnb bvnb	Yes	Yes	<input type="checkbox"/>

[Add New Theme](#)
[Modify Theme](#)

# DPM GUI: Add New Theme Page

**Data Pool Maintenance GUI in mode DEV08 - Netscape**

File Edit View Go Bookmarks Tools Window Help

http://f4hel01.hitc.com:22181/cgi-bin/EcDlDpmThemesFrame.pl

**Data Pool Maintenance** DEV08

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

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

Web Visible: ALL | Insert Enabled: ALL | Beginning Letters:  |

### Add New Theme

Theme Name	Description	Web Visible	Insert Enabled
Theme: <input type="text"/>	Description: <input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

[Return to theme list](#)

# DPM GUI: Modify Theme Page

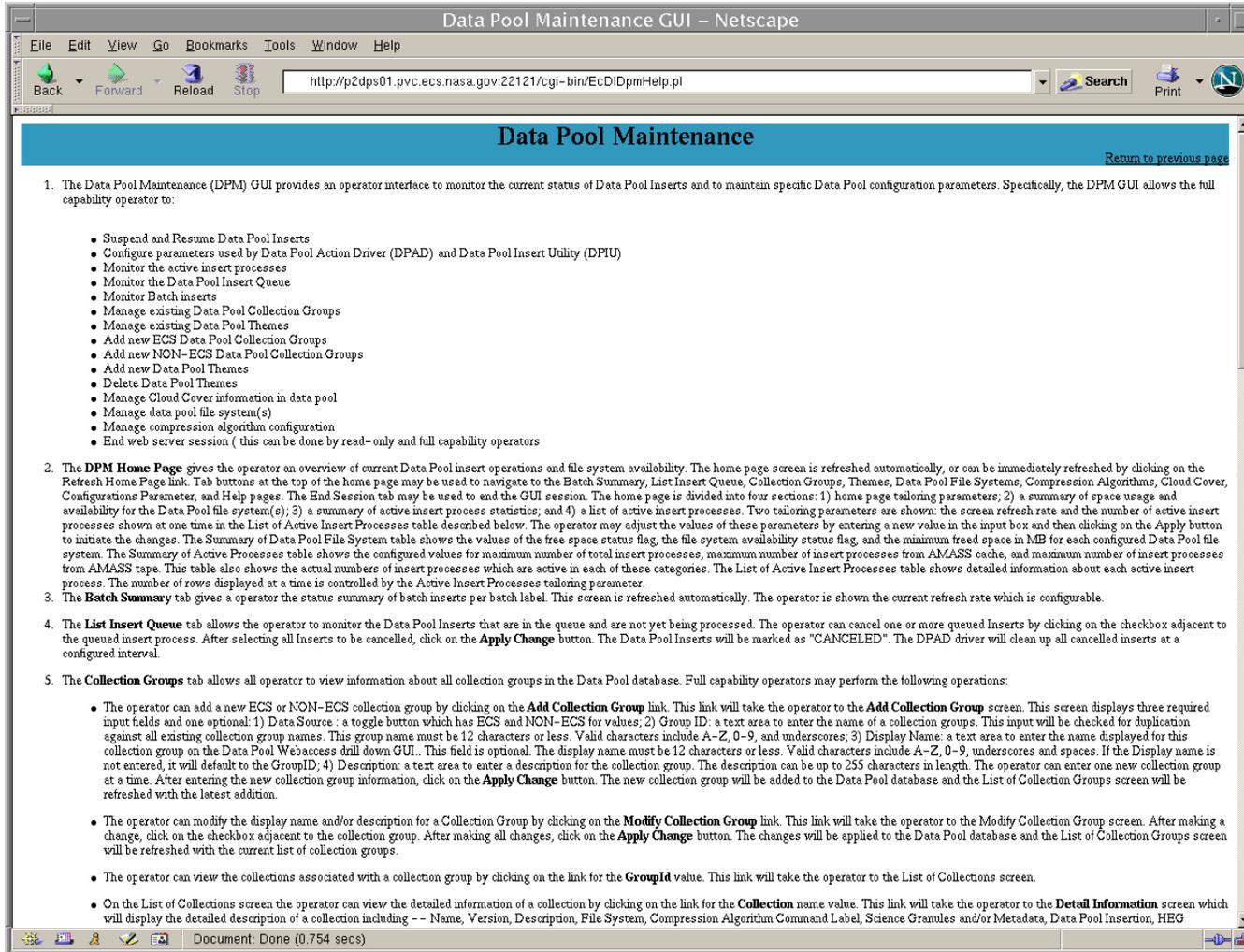
The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI in mode DEV08 - Netscape". The address bar contains the URL "http://f4hel01.hitc.com:22181/cgi-bin/EcDlDpmThemesFrame.pl". The page header features the "Data Pool Maintenance" logo and the text "DEV08". A navigation menu includes links for "Home Page", "Batch Summary", "List Insert Queue", "Collection Groups", "Themes", and "Data Pool File Systems". Below the menu are filter options: "Web Visible" (set to ALL), "Insert Enabled" (set to ALL), and "Beginning Letters" (empty), with an "Apply Filter" button.

### Modify Theme

Theme Name	Description	Web Visible	Insert Enabled	Click on Box to Modify
UAE_2004	United Arab Emirates Unified Aerosol Experiment (UAE) 2004 data products	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
vbnb	bvnb	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

At the bottom of the table, there are links for "[Return to previous page](#)" and "[Return to Main Theme Page](#)", and an "Apply Change" button.

# DPM GUI: Help Page



The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI - Netscape". The address bar contains the URL "http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmHelp.pl". The page content is titled "Data Pool Maintenance" and includes a "Return to previous page" link. The main content is a numbered list of five items describing the GUI's capabilities and features.

**Data Pool Maintenance** [Return to previous page](#)

1. The Data Pool Maintenance (DPM) GUI provides an operator interface to monitor the current status of Data Pool Inserts and to maintain specific Data Pool configuration parameters. Specifically, the DPM GUI allows the full capability operator to:
  - Suspend and Resume Data Pool Inserts
  - Configure parameters used by Data Pool Action Driver (DPAD) and Data Pool Insert Utility (DPIU)
  - Monitor the active insert processes
  - Monitor the Data Pool Insert Queue
  - Monitor Batch inserts
  - Manage existing Data Pool Collection Groups
  - Manage existing Data Pool Themes
  - Add new ECS Data Pool Collection Groups
  - Add new NON-ECS Data Pool Collection Groups
  - Add new Data Pool Themes
  - Delete Data Pool Themes
  - Manage Cloud Cover information in data pool
  - Manage data pool file system(s)
  - Manage compression algorithm configuration
  - End web server session ( this can be done by read-only and full capability operators)
2. The **DPM Home Page** gives the operator an overview of current Data Pool insert operations and file system availability. The home page screen is refreshed automatically, or can be immediately refreshed by clicking on the Refresh Home Page link. Tab buttons at the top of the home page may be used to navigate to the Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File Systems, Compression Algorithms, Cloud Cover, Configurations Parameter, and Help pages. The End Session tab may be used to end the GUI session. The home page is divided into four sections: 1) home page tailoring parameters; 2) a summary of space usage and availability for the Data Pool file system(s); 3) a summary of active insert process statistics; and 4) a list of active insert processes. Two tailoring parameters are shown: the screen refresh rate and the number of active insert processes shown at one time in the List of Active Insert Processes table described below. The operator may adjust the values of these parameters by entering a new value in the input box and then clicking on the Apply button to initiate the changes. The Summary of Data Pool File System table shows the values of the free space status flag, the file system availability status flag, and the minimum free space in MB for each configured Data Pool file system. The Summary of Active Processes table shows the configured values for maximum number of total insert processes, maximum number of insert processes from AMASS cache, and maximum number of insert processes from AMASS tape. This table also shows the actual numbers of insert processes which are active in each of these categories. The List of Active Insert Processes table shows detailed information about each active insert process. The number of rows displayed at a time is controlled by the Active Insert Processes tailoring parameter.
3. The **Batch Summary** tab gives an operator the status summary of batch inserts per batch label. This screen is refreshed automatically. The operator is shown the current refresh rate which is configurable.
4. The **List Insert Queue** tab allows the operator to monitor the Data Pool Inserts that are in the queue and are not yet being processed. The operator can cancel one or more queued Inserts by clicking on the checkbox adjacent to the queued insert process. After selecting all Inserts to be cancelled, click on the **Apply Change** button. The Data Pool Inserts will be marked as "CANCELED". The DPAD driver will clean up all cancelled inserts at a configured interval.
5. The **Collection Groups** tab allows all operator to view information about all collection groups in the Data Pool database. Full capability operators may perform the following operations:
  - The operator can add a new ECS or NON-ECS collection group by clicking on the **Add Collection Group** link. This link will take the operator to the **Add Collection Group** screen. This screen displays three required input fields and one optional: 1) Data Source : a toggle button which has ECS and NON-ECS for values; 2) Group ID: a text area to enter the name of a collection group. This input will be checked for duplication against all existing collection group names. This group name must be 12 characters or less. Valid characters include A-Z, 0-9, and underscores; 3) Display Name: a text area to enter the name displayed for this collection group on the Data Pool Webaccess drill down GUI. This field is optional. The display name must be 12 characters or less. Valid characters include A-Z, 0-9, underscores and spaces. If the Display name is not entered, it will default to the GroupID; 4) Description: a text area to enter a description for the collection group. The description can be up to 255 characters in length. The operator can enter one new collection group at a time. After entering the new collection group information, click on the **Apply Change** button. The new collection group will be added to the Data Pool database and the List of Collection Groups screen will be refreshed with the latest addition.
  - The operator can modify the display name and/or description for a Collection Group by clicking on the **Modify Collection Group** link. This link will take the operator to the Modify Collection Group screen. After making a change, click on the checkbox adjacent to the collection group. After making all changes, click on the **Apply Change** button. The changes will be applied to the Data Pool database and the List of Collection Groups screen will be refreshed with the current list of collection groups.
  - The operator can view the collections associated with a collection group by clicking on the link for the **GroupID** value. This link will take the operator to the List of Collections screen.
  - On the List of Collections screen the operator can view the detailed information of a collection by clicking on the link for the **Collection** name value. This link will take the operator to the **Detail Information** screen which will display the detailed description of a collection including -- Name, Version, Description, File System, Compression Algorithm Command Label, Science Granules and/or Metadata, Data Pool Insertion, HEG

Document: Done (0.754 secs)

# Number of Drivers to Run

- **Recommended initial configuration**
  - 3 event drivers
  - 3 action drivers
  - 1 recovery driver
  - 1 deletion driver
- **EcNbDriverStart <MODE> d<sub>e</sub> d<sub>a</sub> d<sub>r</sub> d<sub>d</sub>**
- **Increase throughput by doubling number of event and action drivers (i.e., 6 each)**
- ***isql* query to identify a condition in which action processing lags behind event processing**
  - **select max(actionDateTime from EcNbActionQueueLog where actionStatus = 'Acquire' or actionStatus = 'ActionNotification'**
  - **if delay is an hour, try increasing number of action drivers to one and one-half times the number of event drivers (e.g., 6 event drivers and 9 action drivers)**

# DPM GUI User Messages

Message Text	Impact	Cause and Corrective Action
DB Error: You entered a duplicate collection group name that exists in the database. Please try again	Unable to add a new group id	Duplicate group name is entered.  Check the list of group ids and enter a group name consisting of four letters, which is not on the list.
INPUT Error: You entered an invalid group name. Please see help page for more information. Please see section Add Collection Group	Unable to add a new group	Lower case letter is entered.  Group id should be all Upper case letters.
INPUT Error: You entered an invalid name. Please see log for more details.	Unable to add a new non-ECS collection	Special characters/small letters are entered.
INPUT Error: You entered an invalid theme name. Please see help page for more information. Please see section: Add New Theme	Unable to add a new theme	Special characters/small letters are entered.  Theme names should be in capital letters and without any special characters.
DB Error: Theme can not be null or empty	Unable to add a theme	A null or empty string is entered.  Theme name should contain capital, small letters. Space is also allowed but no special characters.

# DPM GUI User Messages (Cont.)

Message Text	Impact	Cause and Corrective Action
DB Error: You entered either an existing theme name or a collection or a group name or an ESDT name. Check the log at /usr/ecs/<mode>/CUSTOM /log/EcDIDpmDataPoolGui. log for more details	Unable to add a theme	A name is entered, which is a duplicate name for a group, collection or an ESDT name.
DB Error: This collection is allowed for insertion therefore Spatial Search Type cannot be modified for this collection	Unable to modify Spatial Search type for a collection	Collection is not allowed for insertion.  First make the collection allowed for insertion and then try to modify search type
DB Error: Error adding this collection. Collection entry <collection name> <version> already exist	Unable to add a collection.	Duplicate collection name entered.  Verify the list of collection and then enter a name, which is unique.
DB Error: Internal error occurred	A db transaction interrupted.	Database connection is lost for network error.  No suggestion.
DB Error: delete failed because there are granules associated with this theme	Unable to delete a theme.	There are granules associated with this theme.  Disassociate granules from this theme and then delete it.

# Data Pool Scripts

- **Update Granule Utility**
  - Updates granule retention period
  - Updates retention priority (optional)
- **Data Pool Cleanup Utility**
  - Removes expired granules from the Data Pool disks and inventory
- **Data Pool Access Statistics Accumulation Utility**
  - Derives statistics from event logs produced by the Data Pool FTP server and the Data Pool Web Access application
  - Statistics are written to a data base that can be used to produce tabular reports for loading/manipulation by a spreadsheet application program

# Data Pool Scripts (Cont.)

- **Data Pool Archive Access Statistics Data Utility**
  - Archives the granule access data from the Data Pool database into a tab-delimited ASCII file
- **Batch Insert Utility**
  - Inserts ECS data that are already in the archive into the Data Pool
- **Most Recent Data Pool Inserts Utility**
  - Lists the most recent additions to the Data Pool
- **Data Pool Collection-to-Group Remapping Utility**
  - Reassigns a Data Pool collection to a collection group other than the one to which it was originally assigned
- **Data Pool Move Collections Utility**
  - Moves collections from one file system to another
- **Data Pool Hidden Scrambler Utility**
  - Makes the transition to or renames (with encrypted names) hidden directories for order-only granules in the Data Pool

# Update Granule Utility

- **Extend retention of data already in Data Pool**
- **Options**
  - **-noprompt:** Suppress prompts and detailed information
  - **-theme:** Specifies a valid theme name (i.e., a character string that matches an existing theme name in the Data Pool inventory)
- **Run for a single granule with command-line input**
  - **-grnid** input parameter specifies granule information
- **Run for multiple granules listed in input file**
  - **-file** input parameter specifies the file use to provide granule data to the utility
- **Run as background process, suppressing all warnings, error messages, prompts**
- **Connects to data base and uses Sybase stored procedures**

# Data Pool Cleanup Utility

- **Removal of granules that qualify for deletion**
  - Expiration date
  - Retention priority
  - Theme association
- **Cleanup Utility acts on non-ECS data in the same way as on ECS data**
- **Cleanup Utility can remove granule cross references associated with a given theme, and also the granules if specified**
  - **-themexref specifies a theme for which all cross references are to be removed from the Data Pool**
  - **-theme specifies a theme for which associated granules are to be removed (a granule is not removed if it is associated with other themes)**

# Data Pool Cleanup Utility (Cont.)

- **Cleanup Utility reports deletion candidates to ECHO**
  - **-echomode** parameter specifies the method by which deletion candidates are reported to ECHO
  - **-echomode** takes one of three values
    - **predelete** - Cleanup Utility builds the list of items to clean up from the Data Pool and reports them to ECHO
    - **finishdelete** - Cleanup Utility deletes all of the data that was last found during a run with the predelete parameter
    - **deleteall** - Cleanup Utility builds its list of items to clean up, actually cleans them up, and notifies ECHO via the EcBmBulkURL utility

# Data Pool Cleanup Utility (Cont.)

- **Normal sequence for cleanup is to run the Cleanup Utility twice**
  - **Specify predelete for the first run and finishdelete for the second run**
  - **If a predelete run is performed, the subsequent run must specify finishdelete in order to perform the actual deletions**
    - **Cleanup Utility enforces the requirement to avoid operator error**
- **Cleanup utility permits “validation”**
  - **Cleans up “phantoms” (inventory entries without Data Pool data) and “orphans” (Data Pool data without inventory entries)**
  - **Operator may specify logging discrepancies only, without removals**

## Data Pool Cleanup Utility (Cont.)

- **Three types of runs can be performed with the Cleanup Utility:**
  - Cleanup only
  - Validation only
  - Cleanup followed by validation
- **In normal operations, the Cleanup Utility is run once a day as a cron job as a "cleanup only" run executing in echo mode of predelete**
- **On a subsequent run within the same 24-hour period, the cleanup utility is run in finishdelete mode to perform the actual cleanup processing that was reported to ECHO in the predelete mode**

# Data Pool Access Statistics Utility

- **Processes logs of web access and FTP access and stores results in tables in the Data Pool database**
- **Two versions, each with configuration file**
  - **EcDIRollupWebLogs.pl (EcDIRollupWebLogs.CFG)**  
processes web access logs
  - **EcDIRollupFtpLogs.pl (EcDIRollupFtpLogs.CFG)**  
processes SYSLOG for FTP entries
- **Captured data are written to a flat file and exported to Sybase**
- **Associated shell scripts**
  - **DIDbArchiveAccessStat**
  - **DIDbDeleteAccessStat**
  - **DIDbRestoreAccessStat**

# Data Pool Batch Insert Utility

- **Command-line utility allows insert of granules from the ECS archive or from outside ECS**
  - Queues granules for Data Pool Action Dispatcher (DPAD) and insert by Data Pool Insert Utility (DPIU)
  - Batch label specified by **-label** option
  - Theme association specified by **-theme** option
    - **Note:** If **-theme** option is used to link granules resident in Data Pool to a theme, and the granules were originally inserted using the Batch Insert Utility, must use a different batch label from that used for original insert into Data Pool
  - **EcDIBatchInsert.pl** *<MODE>* **-ecs | nonecs** [ **-file** *pathname* ]  
[ **-theme** " *theme-name* " ] [ **-label** *label* ]  
[ **-rpriority** *priority* ] [ **-rperiod** *period* ]  
[ **-dpriority** *priority* ] [ **-mdonly** ]  
[ **-verbose** ]

# Data Pool Hidden Scrambler Utility

- **Running the Data Pool Hidden Scrambler Utility in Rename Mode**
  - **The Data Pool Hidden Scrambler Utility (EcDIHiddenScrambler.pl) can be run in either of the following two modes:**
    - Transition
    - Rename
  - **In transition mode the utility generates hidden directory names and corresponding database entries for every collection defined for Data Pool in the affected operating mode**
    - The transition mode can be used while Data Pool is up
    - The utility should be run in transition mode only once; i.e., the first time the utility is run in any given operating mode
    - Because transition mode is not used during normal operation, it is not described in any detail in this lesson

# Data Pool Hidden Scrambler Utility (Cont.)

- **Running the Data Pool Hidden Scrambler Utility in Rename Mode (Cont.)**
  - **In rename mode the utility renames all of the scrambled names to a new scrambled name**
    - This involves updates to the directory in the file system and to the database
    - Links from the FtpPull area (and elsewhere) are preserved
    - Renaming is done during DAAC downtime only
  - **If the Data Pool Hidden Scrambler Utility is interrupted during execution, upon restart it detects failures from the previous run and continues processing whatever was left unprocessed**
    - The operator is given no choice as to recovery
    - Either recovery proceeds or the Data Pool inventory and disk files are in a corrupted state

# Data Pool Hidden Scrambler Utility (Cont.)

- **Running the Data Pool Hidden Scrambler Utility in Rename Mode (Cont.)**

## **WARNING**

**The Data Pool Hidden Scrambler Utility should be run in transition mode only once; i.e., the first time the utility is run in any given operating mode. In normal operations, the Data Pool Hidden Scrambler Utility is run in rename mode.**

# Data Pool Non-ECS Action Driver Insert Tool

- **Running the Data Pool Non-ECS Action Driver Insert Tool**
  - **The Non-ECS Action Driver (EcDINdActionDriver) tool provides the DAAC Operations Staff with a command-line interface for inserting Non ECS granules into the Data Pool**
  - **The command is found in the /usr/ecs/OPS/CUSTOM/bin/DPL directory.**
  - **This tool runs only if the Data Pool database server is running and if the database is available.**

# Data Pool Non-ECS Action Driver Insert Tool (Cont.)

- **Running the Data Pool Non-ECS Action Driver Insert Tool (Cont.)**
  - Log in at the host where the Non-ECS Action Driver is installed
  - Type `cd /usr/ecs/<MODE>/CUSTOM/bin/DPL` and then press the Return/Enter key
  - Type `EcDINdActionDriver <MODE> [configFile <filename> ]` and then press the Return/Enter key
    - `<MODE>` is the mode in which the utility is being executed (e.g., OPS, TS1, or TS2)
  - `<filename>` is the name of a specific configuration file to be used as input to the utility. This field is optional. The default is `/usr/ecs/<MODE>/CUSTOM/cfg/EcDINonECSActionDriverCFG`
  - The Non-ECS ActionDriver tool queues Non-ECS data for insertion in the Data Pool. Insertions may be viewed using DPL Maintenance GUI List Insert Queue tab

# Data Pool Order Status & Control

- **For orders place using the Data Pool Web Access tool or the single granule converter dialog for the HDF EOS - GeoTiff (HEG) Converter**
- **Allows operators to view the status of orders and order items**
- **Allows operators to control certain aspects of the order process**
- **Four functional areas:**
  - **Queue Control: Start and stop the HEG Converter Front End server**
  - **Orders: Reports the status of orders**
  - **Order Items: Reports the status of order items**
  - **Help: Provides information on the functions**

# DataPool Order Status & Control: Orders Page and Order Details

**DataPool Order Status - Netscape**

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop Stop

Location: <http://n0dps01u.ecs.nasa.gov:22000/OPS/order>



## DataPool Order Status & Control

[Queue Control](#) | [Orders](#) | [Order Items](#) | [Help](#)

---

### Orders

There are totally [23](#) orders , [1](#) order is currently being processed. There are also [9 failed orders](#) which need operator attention. The filtering status in this page is: No filtering

Filter:  On  Off By Status:  Do Filtering

Order ID	Status	E-Mail	User Name	Creation Date	Last Update
<a href="#">32</a>	DONE	hconover@itsc.uah.edu	-	05/15/03	05/15/03
<a href="#">9</a>	DONE	sjsk@nsidc.org	s khalsa	04/15/03	05/15/03
<a href="#">17</a>	DONE	sjsk@nsidc.org	s khalsa	04/18/03	05/15/03
<a href="#">10</a>	DONE	sjsk@nsidc.org	s khalsa	04/15/03	05/15/03
<a href="#">19</a>	DONE	sjsk@nsidc.org	s khalsa	04/21/03	05/15/03
<a href="#">31</a>	FAILOPERN	btmclean@nsidc.org	-	05/14/03	05/15/03
<a href="#">30</a>	DONE	btmclean@nsidc.org	-	05/14/03	05/14/03
<a href="#">29</a>	DONE	marilynk@nsidc.org	-	05/12/03	05/12/03
<a href="#">27</a>	FAILOPERN	btmclean@nsidc.org	-	05/02/03	05/06/03
<a href="#">28</a>	FAILOPERN	btmclean@nsidc.org	-	05/02/03	05/02/03

Filter:  On  Off By Status:  Do Filtering

**DataPool: Order Details Viewer - Netscape**

### Order Details Viewer

Current Order/Row is 2 of 23: [First](#) | [Previous](#) | [Next](#) | [Last](#)

---

**Details for Order 10 (#2 of 23)**

Order ID: 10  
 Status: DONE  
 Creation Date: 04/15/03  
 Last Update: 05/15/03  
 Email: [sjsk@nsidc.org](mailto:sjsk@nsidc.org)  
 Real Name: s khalsa

Upper Left Latitude: -  
 Upper Left Longitude: -  
 Lower Right Latitude: -  
 Lower Right Longitude: -

Output Projection:  
(If specified at the Order level. Overrides orderItem geo projection selection.)

Output Format:  
(If specified at the Order level. Overrides orderItem geotiff format selection.)

---

Current Order/Row is 2 of 23: [First](#) | [Previous](#) | [Next](#) | [Last](#)

# DataPool Order Status & Control: Order Items Page and Item Details

**DataPool: Item Status - Netscape**

Location: [tu.ecs.nasa.gov:22000/OPS/order.jsessionid=vj1hvotv31?page=item&doFilter=on&submitFilter=yes&orderId=28&sort=itemId](http://tu.ecs.nasa.gov:22000/OPS/order.jsessionid=vj1hvotv31?page=item&doFilter=on&submitFilter=yes&orderId=28&sort=itemId)

## DataPool Order Status & Control

[Queue Control](#) | [Orders](#) | [Order Items](#) | [Help](#)

### Items

There are totally **196** order items , **1** order item is currently being processed. There are also **72 failed order items** which need operator attention. The filtering status in this page is: Filter on order 28

Filter:  On  Off By Order ID:  Do Filtering By Status:  Do Filtering

Item ID	Status	Error Code	Granule ID	Input File	Ord
143	DONE	0	2594549	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h14v09.004.2003122183052.hdf	28
144	DONE	0	2594556	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h13v09.004.2003122185038.hdf	28
145	FAILED	610 HEG: Opening Input Parameter File	2594544	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h14v10.004.2003122183034.hdf	28
146	FAILED	610 HEG: Opening Input Parameter File	2594560	MOST/MOD10A1.004/2003.04.25//MOD10A1.A2003115.h13v10.004.2003122185704.hdf	28

# Rows in Page: 10 Showing 1-4 of 4 Order Items

Filter:  On  Off By Order ID:  Do Filtering By Status:  Do Filtering

**DataPool: Request Details Viewer - Netscape**

### Order Item Details Viewer

Current Item/Row is 2 of 2: [First](#) | [Previous](#) | [Next](#) | [Last](#)

---

Details for Order Item 38 (#2 of 2)

Item ID: 38  
 Order ID: 8  
 Status: DONE  
 Error Code: 0  
 Granule ID: 2013176744  
 Input File: MOLT/MODPT1KN.001/2000.08.25/labtest\_2013308902  
 Output Projection: nochange  
 Output Format: hdfes

---

Current Item/Row is 2 of 2: [First](#) | [Previous](#) | [Next](#) | [Last](#)

# DataPool Order Status & Control: Queue Control Page

The screenshot shows a Netscape browser window titled "DataPool: Request Status - Netscape". The address bar contains the URL: `http://n0dps01u.ecs.nasa.gov:22000/OPS/order.jsessionid=vj1hvot31?page=config`. The page header features the NASA logo and the title "DataPool Order Status & Control" in a stylized font. Below the title are navigation links: "Queue Control | [Orders](#) | [Order Items](#) | [Help](#)".

The main content area is titled "Processing and Queue Status" and contains several control elements:

- HEG Front End Server:** A status indicator showing "UP" with two buttons: "Exit Gracefully" and "Exit Immediately (No Cleanup)".
- HEG Front End Processing State:** A dropdown menu currently set to "Process orders in the order queue".
- Maximum number of HEG Converter Processes:** A text input field containing the value "10".
- Maximum Order Queue Size:** A text input field containing the value "100".

At the bottom of the control section are two buttons: "Apply Changes" and "Reset".

At the bottom of the page, there is a disclaimer: "U.S. GOVERNMENT COMPUTER. YOU SHOULD HAVE NO EXPECTATION OF PRIVACY. By continuing, you consent in your keystrokes and data content being monitored".

The browser's status bar at the bottom shows "Document Done".

# Using the Spatial Subscription Server GUI

- **The Spatial Subscription Server (NBSRV) GUI provides a convenient means of modifying the period of retention in a Data Pool insert subscription and designating a subscription for secure distribution**
  - **This can be done by User Services and/or science personnel, but the archive support personnel should also be familiar with the GUI and its use**
  - **Other tasks done with the Spatial Subscription Server GUI may also be of use to archive personnel**
    - **For example, viewing the acquire and notification actions currently being processed by the Spatial Subscription Server and viewing statistics on the processing of events and actions by the Spatial Subscription Server**

# Using the Spatial Subscription Server GUI (Cont.)

- **The Spatial Subscription Server GUI permits an operator to perform the following kinds of activities:**
  - **View subscribable events**
  - **Review existing subscriptions in the Spatial Subscription Server (NBSRV) database**
  - **Add a subscription specifying Data Pool qualification and retention criteria, thus adding a subscription for Data Pool insert to the database**
  - **Create a standard subscription for notification and/or distribution of ECS data products**
  - **Designate a subscription for secure distribution**

# Using the Spatial Subscription Server GUI (Cont.)

- **The Spatial Subscription Server GUI permits an operator to perform the following kinds of activities (Cont.):**
  - **Extend the period of retention in a Data Pool insert subscription for new granules from a particular area**
  - **View the acquire and notification actions currently being processed by the Spatial Subscription Server**
  - **View statistics on the processing of events and actions by the Spatial Subscription Server**

# Using the Spatial Subscription Server GUI (Cont.)

- **New operator GUI security standards require the following two levels of permissions for the Spatial Subscription Server GUI:**
  - **Full Capability**
  - **Limited Capability**
- **An operator's level of permission is determined when the operator logs in to the GUI using the security login prompt**

# Using the Spatial Subscription Server GUI (Cont.)

- **Full-capability operators have the ability to configure parameters and perform all other actions that can be accomplished with the Spatial Subscription Server 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**

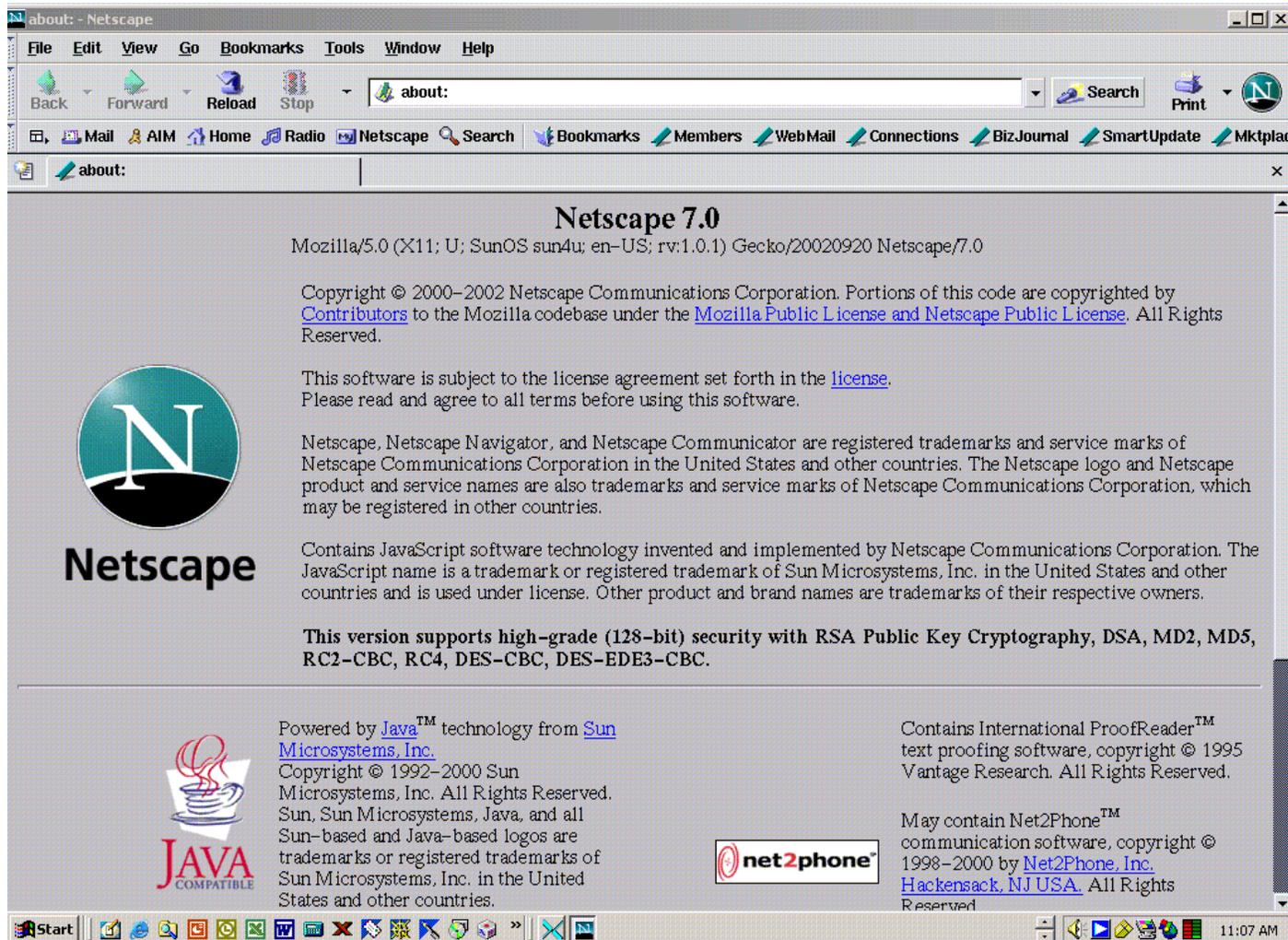
# Using the Spatial Subscription Server GUI (Cont.)

- **This lesson provides instruction in the full-capability version of the Spatial Subscription Server GUI. In general, both full-capability operators and limited-capability operators can view the following items:**
  - **Subscribable events**
  - **Subscriptions**
  - **Bundling orders**
  - **Action queue**
  - **Statistics relating to Spatial Subscription Server performance**

# Using the Spatial Subscription Server GUI (Cont.)

- **Full-capability operators only may perform the actions:**
  - Add, update, or delete (cancel) a subscription
  - Configure defaults for a bundling order
  - Add, update, or cancel a bundling order
- **The Spatial Subscription Server GUI is a web application certified for use with Netscape 7 (and higher) browsers**

# Netscape Web Browser



# Security Login Prompt

Prompt

 Enter username and password for "SSS Realm" at p2dps01.pvc.ecs.nasa.gov:22221

User Name:

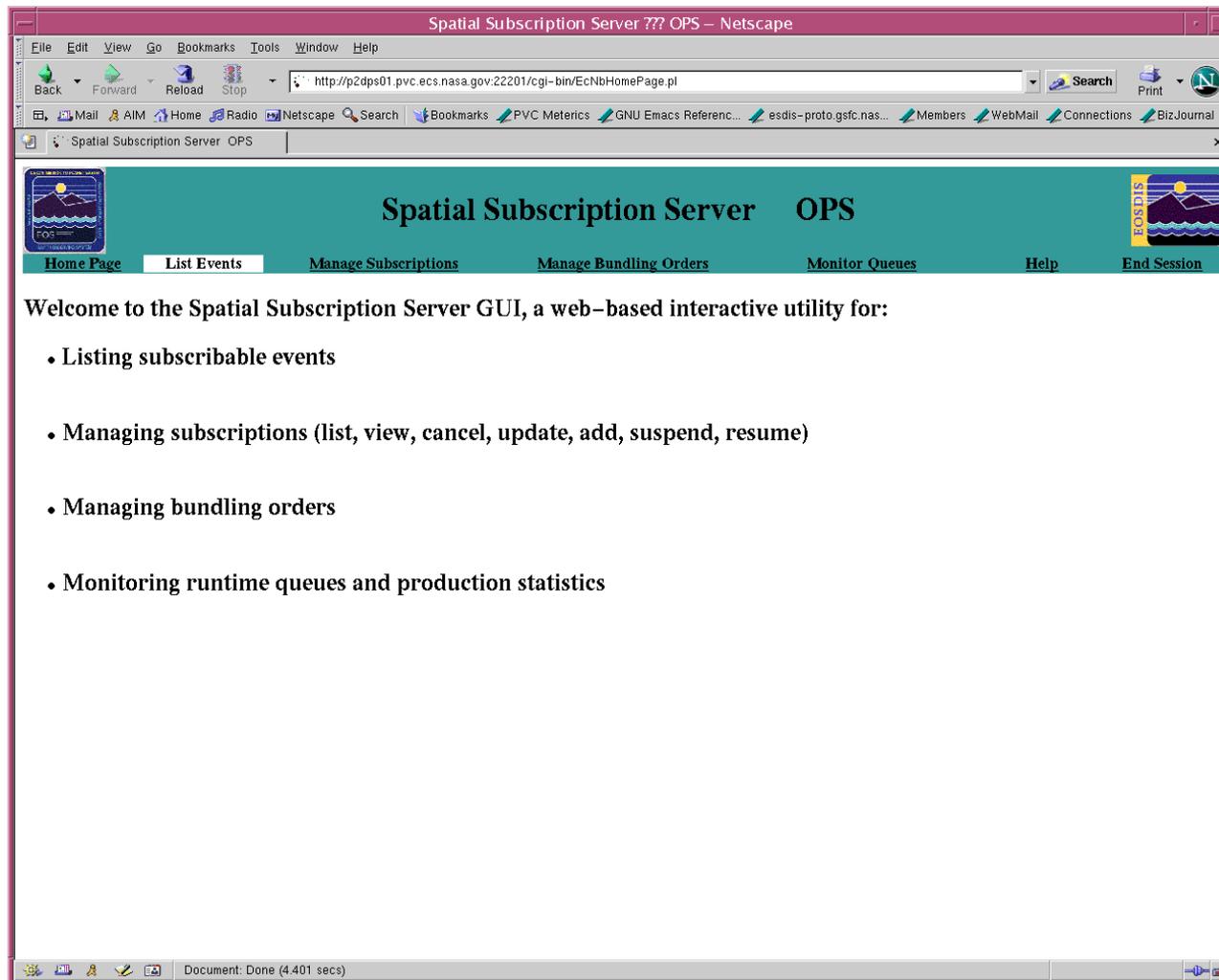
Password:

Use Password Manager to remember these values.

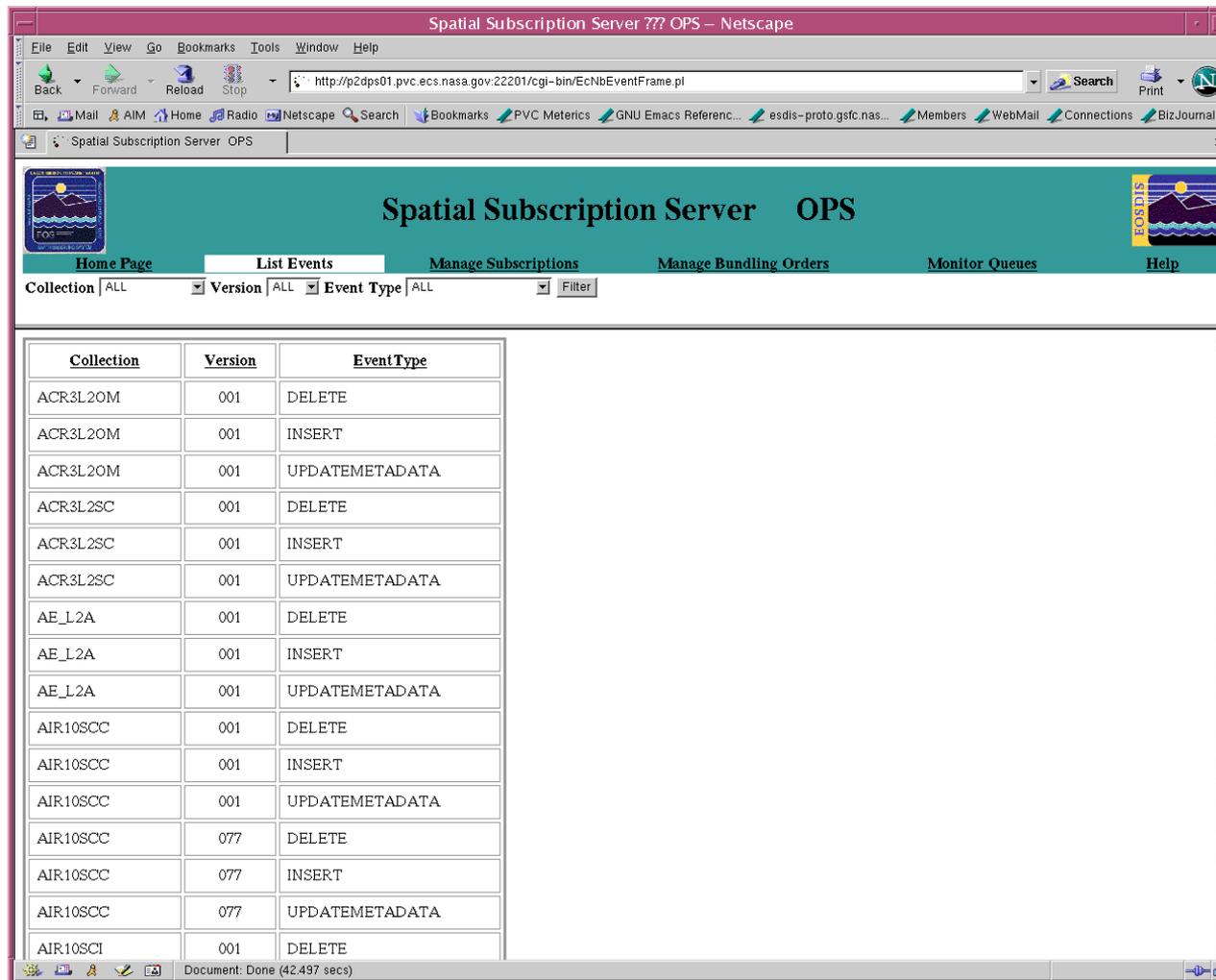
# Using the Spatial Subscription Server GUI (Cont.)

- **The Spatial Subscription Server GUI Home Page provides four links for access to pages supporting various tasks:**
  - **List Events:** access to pages for listing subscribable events
  - **Manage Subscriptions:** access to pages for managing subscriptions
  - **Manage Bundling Orders:** access to pages for managing bundling orders
  - **Monitor Queues:** access to pages for monitoring the action queue and listing statistics
- **There is also a Help link providing descriptions of the Spatial Subscription Server functions to provide the operator with assistance in navigating through the GUI**

# Spatial Subscription Server GUI Home Page



# Spatial Subscription Server GUI List Events Page



Spatial Subscription Server OPS

Home Page **List Events** Manage Subscriptions Manage Bundling Orders Monitor Queues Help

Collection | ALL  Version | ALL  Event Type | ALL  Filter

Collection	Version	EventType
ACR3L2OM	001	DELETE
ACR3L2OM	001	INSERT
ACR3L2OM	001	UPDATEMETADATA
ACR3L2SC	001	DELETE
ACR3L2SC	001	INSERT
ACR3L2SC	001	UPDATEMETADATA
AE_L2A	001	DELETE
AE_L2A	001	INSERT
AE_L2A	001	UPDATEMETADATA
AIR10SCC	001	DELETE
AIR10SCC	001	INSERT
AIR10SCC	001	UPDATEMETADATA
AIR10SCC	077	DELETE
AIR10SCC	077	INSERT
AIR10SCC	077	UPDATEMETADATA
AIR10SCI	001	DELETE

# Spatial Subscription Server GUI Manage Subscriptions Page

Spatial Subscription Server OPS

Home Page List Events **Manage Subscriptions** Add Subscriptions List Themes Monitor Queues Help

User: windhoek\_anc Collection: ALL Status: ALL DataPool: ALL Filter

Change Collection Display To: TextEntry

Subscription Id	User	Collection	Version	Event Type	Status	DataPool	Start Date	Expiration Date	Time Last Updated
11	NOAA/SOAP	GDAS_OZF	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 7 2004 12:00PM	Feb 16 2004 4:28PM
12	NOAA/SOAP	OZONEEP	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 8 2004 12:00PM	Feb 16 2004 4:29PM
14	NOAA/SOAP	SEA_JCE	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 8 2004 12:00PM	Feb 16 2004 4:32PM
20	cmops	MOD04_L2	003	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Nov 9 2008 12:00PM	Feb 16 2004 4:43PM
52	userops	MOD13A1	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 14 2004 12:00PM	Feb 16 2004 4:45PM
53	userops	MOD09A1	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 14 2004 12:00PM	Feb 16 2004 4:46PM
54	userops	MOD43B1	001	INSERT	Inactive	No	Jan 1 2000 12:00PM	Nov 14 2004 12:00PM	Feb 16 2004 4:48PM
55	cmops	MOD11A1	001	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Dec 31 2004 12:00PM	Feb 16 2004 4:49PM
56	cmops	MOD11B1	001	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Dec 31 2004 12:00PM	Feb 16 2004 4:51PM
58	cmops	MOD13A1	001	INSERT	Inactive	Yes	Jan 1 2000 12:00PM	Dec 31 2004 12:00PM	Feb 16 2004 4:53PM

# Spatial Subscription Server GUI Add Subscriptions Page

The screenshot shows a web browser window titled "Spatial Subscription Server OPS - Microsoft Internet Explorer". The address bar contains the URL "http://f4oml01.hitc.com:22200/cgi-bin/EcNbAddSubscription.pl". The page header features the "Spatial Subscription Server OPS" logo and a navigation menu with links: Home Page, List Events, Manage Subscriptions, Add Subscriptions (highlighted), List Themes, Monitor Queues, and Help. The main content area contains a form with the following fields:

- User Id:
- Status:
- Start Date (mm/dd/yyyy hh:mm):
- Expiration Date (mm/dd/yyyy hh:mm):

Below the form, there is a section titled "Subscribe to Event" with a "Collection Short Name"  and an "Apply" button.

The browser's status bar at the bottom shows "Done" and "Local intranet".

# Spatial Subscription Server GUI View Subscriptions Page

The screenshot shows a Netscape browser window titled "Spatial Subscription Server OPS - Netscape". The address bar contains the URL "http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbSubscriptionChoose.pl". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The toolbar features Back, Forward, Reload, Stop, Search, and Print buttons. The browser's status bar at the bottom indicates "Document: Done (4.015 secs)".

The main content area of the browser displays the "Spatial Subscription Server OPS" interface. At the top, there is a navigation menu with the following items: Home Page, List Events, Manage Subscriptions (which is highlighted), List Themes, Monitor Queues, and Help. Below the navigation menu, the following subscription details are displayed:

```
User=lillianw
Status=Active
Start Date=May 14 2003 12:00PM
Expiration Date=May 14 2004 12:00PM
Short Name=MOD28QC
Version= 001
Event Type=INSERT

-- Acquire Data associated with Subscription --
User Profile=lillianw
User String=sun consolidation, eborder firewall test
Priority=XPRESS
Notify Type=MAIL
Email Address=lillianw@eos.east.hitec.com
Media Format=FILEFORMAT
Media Type=FtpPush
FTP Information
User=userops
Password=*****
Host=t1spg03.vato.ecs.nasa.gov
Directory=/data2/TS1/PUSH_DESTINATION/D2
```

At the bottom of the content area, there are two links: [View another subscription](#) and [Return to Home Page](#).

# Spatial Subscription Server GUI Update Subscriptions Page

Update Subscription - Netscape

http://p3.dynip1.pvc.ecs.nasa.gov:22211/cgi-bin/EP48SubscriptionChoose.pl

**Spatial Subscription Server OPS**

Home Page | List Events | **Manage Subscriptions** | List Themes | Monitor Queues | Help

User ID: [insured] Status: [Active]

Start Date (MM/DD/YYYY HH:MM) [02/10/04 12:00]

Expiration Date (MM/DD/YYYY HH:MM) [02/20/05 12:00]

Subscribe to Event

Short Name / Version / Event Type: MOD021KM 003 INSERT

**Subscription Qualifiers**

Logical Basis

[AND]

Integer / Float / Date

Attribute Name/Type	Min Value	Max Value

String

Attribute Name/Type	Value

**Spatial**

Enter coordinates of intersecting LLBOX

North Latitude [ ]

West Longitude [ ] East Longitude [ ]

South Latitude [ ]

**Action Information**

To bundle the subscription, check here and choose from the list below:  Bundling Order

Bundling Order Selection

[0400081954]

(After choosing a bundling order, skip to the bottom of the page.)

Otherwise choose one or more actions  Acquire  E-Mail Notification  Data Pool

Enter information below for the actions selected (not applicable for bundled subscriptions)

**Acquire Information**

User Profile [ALL]

User String [ ]

Email Address [ ]

Media Format [FILEFORMAT]

Media Type [FilePush]

Priority [HIGH]

Notify Type [MAIL]

Information for FilePush and Secure Copy Distribution (scp) Only

User [ ]

Password [ ]

Enter password again for verification [ ]

Host [ ]

Directory [ ]

**E-Mail Notification Information**

Action Address [ ]

User String [ ]

Metadata [ ]

**Data Pool Information**

Retention Period [ ] (in days)

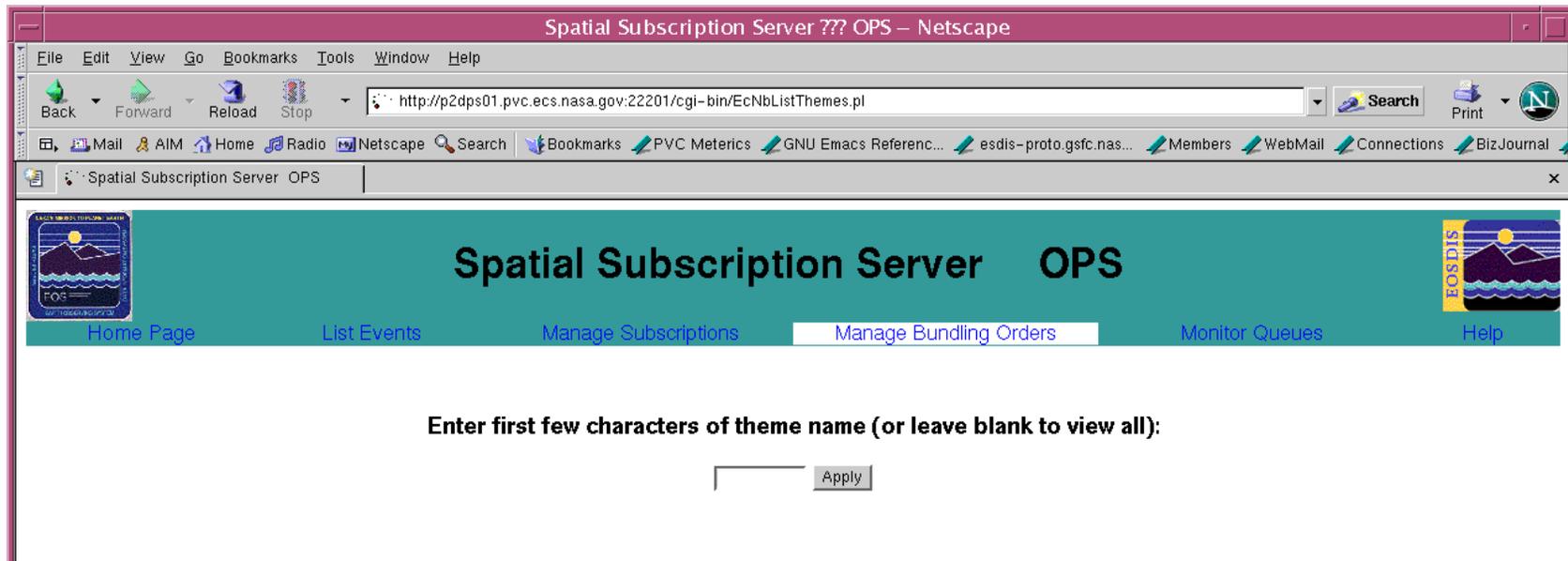
Retention Priority [ ] (valid range 1 thru 255)

Science Granules and/or Metadata [ ]

Check here to add theme:  Enter first few chars of name: [ ]

Update Subscription

# Spatial Subscription Server GUI List Themes Request Page



# Spatial Subscription Server GUI Theme List Page

The screenshot shows a Netscape browser window titled "Spatial Subscription Server ??? OPS - Netscape". The address bar contains the URL "http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbListThemes2.pl". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The address bar has navigation buttons for Back, Forward, Reload, and Stop, along with Search and Print icons. The browser's toolbar shows various icons for Mail, AIM, Home, Radio, Netscape, Search, Bookmarks, PVC Metrics, GNU Emacs Referenc..., esdis-proto.gsfc.nas..., Members, WebMail, Connections, and BizJournal. The page title is "Spatial Subscription Server OPS".

The main content area features a green header with the text "Spatial Subscription Server OPS" and two logos. Below the header is a navigation menu with links for Home Page, List Events, Manage Subscriptions, Manage Bundling Orders (highlighted), Monitor Queues, and Help.

The main content area displays a table with the following data:

Theme Name	Choose Theme Action
OPS FIRST THEME	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
OPS SECOND THEME	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
Third Theme	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
EDC Theme 1	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
EDC Theme 2	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
Ozone Theme	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
MOD43 Theme	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
New Non Ecs Theme	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>
Theme from a Summer Place	<input type="checkbox"/> List Subscriptions <input type="button" value="Apply"/>

Below the table is a blue link labeled "Continue".

The status bar at the bottom of the browser window shows "Document: Done (1.993 secs)".

# Spatial Subscription Server GUI

## List Subscriptions for Theme Page

Spatial Subscription Server OPS

Home Page List Events Manage Subscriptions **Manage Bundling Orders** Monitor Queues Help

### Subscriptions for theme OPS FIRST THEME

ID	User	Status	Expiration Date	ESDT ShortName/Version/EventType	Choose Subscription Action
618	cmops	Active	Apr 9 2004 12:00AM	DFLAPCHM 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
619	cmops	Active	Apr 9 2004 12:00AM	DFLAXCHM 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
620	cmops	Active	Apr 9 2004 12:00AM	MODOCL2 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
621	cmops	Active	Apr 9 2004 12:00PM	MODOCL2A 1 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
1104	cmshared	Canceled	Feb 21 2004 2:35PM	MOD021KM 3 INSERT	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="Apply"/>
					<input type="button" value="Suspend All"/> <input type="button" value="Resume All"/> <input type="button" value="Cancel All"/> <input type="button" value="Apply"/>

# Spatial Subscription Server GUI Manage Bundling Orders Page

The screenshot shows the Spatial Subscription Server GUI in Netscape. The main page is titled "Spatial Subscription Server OPS" and has a navigation menu with "Home Page", "List Events", "Manage Subscriptions", and "Manage Bundling Orders". The "Manage Bundling Orders" page displays a table of bundling orders and a detailed view of a specific order.

**Bundling Order List** [Add Bundling Order](#) [Configure Defaults](#)

User:  MediaType:  Status:

Bundling Order	User	Creation Date	Expiration Date	Media Type	Status	Choose Bundling
0400068737	rginocch	Aug 12 2003 6:28PM	Aug 11 2004 12:00AM	FtpPush	ACTIVE	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/>
0400078765	cmshared	Oct 14 2003 5:59PM	Oct 13 2004 12:00AM	CDROM	ACTIVE	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="List Subs"/> <input type="button" value="Apply"/>
0400079209	cmshared	Oct 22 2003 11:17AM	Oct 21 2004 12:00PM	scp	CANCELLED	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input checked="" type="button" value="List Subs"/> <input type="button" value="Apply"/>
0400079392	cmshared	Oct 24 2003 2:48PM	Oct 23 2004 12:00PM	scp	CANCELLED	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="List Subs"/> <input type="button" value="Apply"/>
0400079393	cmshared	Oct 24 2003 2:49PM	Oct 23 2004 12:00PM	scp	CANCELLED	<input type="button" value="View"/> <input type="button" value="Update"/> <input type="button" value="Cancel"/> <input type="button" value="List Subs"/> <input type="button" value="Apply"/>

[Continue](#)

**Bundling Order 0400079209**

User Name: cmshared  
 Creation Date: Oct 22 2003 11:17AM  
 Expiration Date: Oct 21 2004 12:00PM  
 Media Type: scp  
 Current Status: CANCELLED  
 User String: Test Criterion 19  
 Email Address: awilson@p0ms01u.ecs.nasa.gov  
 Distribution Priority: HIGH

**scp Distribution Information:**

Users:  
 Hosts:  
 Directory:

**Completion Criteria:**

Minimum Bundle Size: 5  
 Minimum Granule Count: 4  
 Maximum Bundle Age: 1

[Return to bundling order list](#)

# Spatial Subscription Server GUI Add Bundling Order Page

The screenshot shows a Netscape browser window titled "Spatial Subscription Server ??? OPS - Netscape". The address bar contains the URL "http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbAddBundle.pl". The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The toolbar has Back, Forward, Reload, Stop, Search, and Print buttons. The browser's status bar at the bottom shows "Document: Done (3.278 secs)".

The main content area of the browser displays the "Spatial Subscription Server OPS" website. The page has a teal header with a logo on the left and right. Below the header is a navigation menu with links: Home Page, List Events, Manage Subscriptions, Manage Bundling Orders (highlighted), Monitor Queues, and Help. Below the navigation menu are three links: [Bundling Order List](#), [Add Bundling Order](#) (highlighted), and [Configure Defaults](#).

The "Add Bundling Order" form is centered on the page. It has a title "Add Bundling Order" and three input fields: "UserID" (empty), "Expiration Date" (02/20/2005), and "Media Type" (CDROM). The "Expiration Date" field has a placeholder "(mm/dd/yyyy)". Below the input fields are two buttons: "continue" and "clear".

# Spatial Subscription Server GUI Add Bundling Order: Data Pages

## Hard Media

The screenshot shows the 'Add Bundling Order' form in a Netscape browser window. The form is titled 'Add Bundling Order' and contains the following fields:

- User ID: cmbahred
- Expiration Date: 11/13/2003
- Media Type: CDROM
- Email Address: [text input]
- User String: [text input]
- Distribution Priority: XPRESS
- Shipping Information:
  - Street1: [text input]
  - Street2: [text input]
  - Street3: [text input]
  - City: Landover
  - State: Maryland
  - Country: United States
  - Zip Code: 20774
  - Phone number: 301-411-1111
  - FAX number: [text input]
- Completion Criteria:
  - Minimum Bundle Size(GB): 0.56
  - Minimum Granule Count: 10
  - Maximum Bundle Age(days): 0

Buttons: Add Bundling Order, reset

## FTP Push

The screenshot shows the 'Add Bundling Order' form in a Netscape browser window. The form is titled 'Add Bundling Order' and contains the following fields:

- User ID: cmbahred
- Expiration Date: 11/13/2003
- Media Type: FtpPush
- Email Address: [text input]
- User String: [text input]
- Distribution Priority: XPRESS
- FtpPush Parameters:
  - FTP Username: [text input]
  - FTP Host: [text input]
  - FTP Password: [text input]
  - Retry Password: [text input]
  - FTP Directory: [text input]
- Completion Criteria:
  - Minimum Bundle Size(GB): 10.5
  - Minimum Granule Count: 10
  - Maximum Bundle Age(days): 0

Buttons: Add Bundling Order, reset

## FTP Pull

The screenshot shows the 'Add Bundling Order' form in a Netscape browser window. The form is titled 'Add Bundling Order' and contains the following fields:

- User ID: cmbahred
- Expiration Date: 11/13/2003
- Media Type: FtpPull
- Email Address: [text input]
- User String: [text input]
- Distribution Priority: XPRESS
- Completion Criteria:
  - Minimum Bundle Size(GB): 10
  - Minimum Granule Count: 10
  - Maximum Bundle Age(days): 0

Buttons: Add Bundling Order, reset

# Spatial Subscription Server GUI

## Add Bundling Order: Data Pages

SCP

Spatial Subscription Server ??? OPS - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2ins03.pvc.ecs.nasa.gov Search Print

Home Page List Events Manage Subscriptions Manage Bundling Orders Monitor Queues Help

### Add Bundling Order

User ID: cmshared

Expiration Date: 10/21/2004

Media Type: scp

Email Address: cmshared@p2ins02.pvc

User String:

Distribution Priority: NORMAL

Spatial Subscription Server ??? OPS - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://p2ins03.pvc.ecs.nasa.gov Search Print

### scp Parameters

Username:

Host:

Password:

Retype:

Password:

Directory:

### Completion Criteria

Minimum Bundle: 40

Size(GB):

Minimum Granule: 10

Count:

Maximum Bundle: 1

Age(days):

\* required field

Add Bundling Order reset

Document: Done (5.384 secs)

# Spatial Subscription Server GUI Update Bundling Order Page

Spatial Subscription Server ??? OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print

Spatial Subscription Server OPS

**Spatial Subscription Server OPS**

[Home Page](#) [List Events](#) [Manage Subscriptions](#) [Manage Bundling Orders](#) [Monitor Queues](#) [Help](#)

## Update Bundling Order 0400079209

( Click [here](#) to go back to the Bundling Order list. )

UserID

Expiration Date (MM/DD/YYYY HH:MM)

Physical Media Type

# Spatial Subscription Server GUI Update Bundling Order: Data Pages

## FTP Push

Spatial Subscription Server DEV05 - Netscape

http://3ins01.htc.com:22235/cgi-bin/EcNbModBundlingOrder

### Update Bundling Order 040001767

UserID: labuser  
Expiration Date: 8/3/2005 12:00  
Media Type: FtpPush  
Email Address: labuser@eos.htc.com  
User String: festing  
Distribution Priority: HIGH

FtpPush Parameters:

FTP Username: labuser  
FTP Host: origin  
FTP Password: [REDACTED]  
Retype Password: [REDACTED]  
FTP Directory: /devdata1/DEV01/PushArea

Completion Criteria:

Minimum Bundle Size(GB): 1  
Minimum Granule Count: 2  
Maximum Bundle Age(days): 1  
\* required field

Update Bundling Order reset

## FTP Pull

Spatial Subscription Server DEV05 - Netscape

http://3ins01.htc.com:22235/cgi-bin/EcNbModBundlingOrder

### Update Bundling Order 040001216

UserID: labuser  
Expiration Date: 12/4/2003 12:00  
Media Type: FtpPull  
Email Address: labuser@eos.htc.com  
User String: Test User  
Distribution Priority: NORMAL

Completion Criteria:

Minimum Bundle Size(GB): 54  
Minimum Granule Count: 3  
Maximum Bundle Age(days): 3  
\* required field

Update Bundling Order reset

# SSS GUI: Configure Bundling Order Completion Criteria Defaults

**Spatial Subscription Server OPS**

Home Page | List Events | Manage Subscriptions | **Manage Bundling Orders** | Monitor Queues | Help

[Bundling Order List](#) | [Add Bundling Order](#) | [Configure Defaults](#)

## Configure Completion Criteria Default Values

Parameter	Current Value	Change to...
Minimum Granule Count	10	<input type="text"/>
Maximum Bundle Age(days)	1	<input type="text"/>
Bundle Expiration Period(days)	365	<input type="text"/>
8MM		
Minimum Bundle Size(GB)	20	<input type="text"/>
CDROM		
Minimum Bundle Size(GB)	1	<input type="text"/>
DLT		
Minimum Bundle Size(GB)	94	<input type="text"/>
DVD		
Minimum Bundle Size(GB)	12	<input type="text"/>
FtpPull		
Minimum Bundle Size(GB)	54	<input type="text"/>
FtpPush		
Minimum Bundle Size(GB)	40	<input type="text"/>
scp		
Minimum Bundle Size(GB)	40	<input type="text"/>

**Spatial Subscription Server OPS**

Home Page | List Events | Manage Subscriptions | **Manage Bundling Orders** | Monitor Queues | Help

**Please Confirm The Following Bundling Criteria Change**

Maximum Bundle Age(days): 2

# Spatial Subscription Server GUI List Action Queue Page

The screenshot shows a Netscape browser window titled "Spatial Subscription Server ??? OPS - Netscape". The address bar shows the URL: `http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbActionFrame.pl`. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The browser's toolbar includes Back, Forward, Reload, Stop, Search, and Print. The browser's status bar shows "Document: Done (15.836 secs)".

The main content area of the browser displays the "Spatial Subscription Server OPS" page. The page has a green header with the title "Spatial Subscription Server OPS" and a navigation menu with links for Home Page, List Events, Manage Subscriptions, List Action Queue (selected), List Statistics, and Help. Below the navigation menu, there are filters for Action Type (ALL), Subscription (ALL), and Status (ALL), along with a Filter button.

The main content area displays a table with the following data:

Action Type	Subscription Id	User	Collection	Version	Enqueue Time	Dequeue Time	Status
Notify	1010	cmshared	MI1B2E	001	Jan 28 2004 8:03PM	Jan 28 2004 8:03PM	DequeuedAction
Acquire	1010	cmshared	MI1B2E	001	Jan 28 2004 8:03PM	Jan 28 2004 8:03PM	DequeuedAction
Notify	1070	cmshared	AST_L1B	001	Jan 28 2004 7:23PM	Jan 28 2004 7:23PM	DequeuedAction
Acquire	1070	cmshared	AST_L1B	001	Jan 28 2004 7:23PM	Jan 28 2004 7:23PM	DequeuedAction
Acquire	943	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	933	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	750	PrivUser	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	933	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	750	PrivUser	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	933	cmshared	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	750	PrivUser	MOD35_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction
Acquire	742	PrivUser	MOD07_L2	077	Jan 28 2004 5:58PM	Jan 28 2004 6:18PM	DequeuedAction

# Spatial Subscription Server GUI List Statistics Page

Spatial Subscription Server OPS

Home Page   List Events   Manage Subscriptions   List Action Queue   **List Statistics**   List Failed Action Help

Subscribed Events Left to Dequeue  
0

Matched Subscriptions Left to Dequeue  
0

Summary of the Processing Time for Subscriptions Evaluated against Events in the Event Queue

ESDT Count	ESDT ShortName	ESDT VersionID	ESDT Event Type	MaxMetadataTime (ms)	AverageMetadataTime (ms)	MaxSubEvalTime (ms)	AverageSubEvalTime (ms)
29	AIRAASCI	77	INSERT	124733	48733	8913	4118
2	AIRABDBR	77	INSERT	39230	31761	4760	3311
18	AIRABRAD	77	INSERT	156440	74583	7196	4420
40	AIRBAQAP	77	INSERT	157463	73065	7750	3945
2	AST_L1B	1	INSERT	4643	4643	3783	3783
2	MOD01	3	INSERT	970	970	5903	5903
45	MOD04_L2	77	INSERT	24403	8373	2960	2347

Summary of the Processing Time for E-Mail Notification Actions in Action Queue

Notification Count	MaxNotifyTime (ms)	AverageNotifyTime (ms)

# Spatial Subscription Server GUI List Failed Action Page

Spatial Subscription Server ??? TS2 – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop  Search Print

 **Spatial Subscription Server TS2** 

[Home Page](#) [List Events](#) [Manage Subscriptions](#) [List Action Queue](#) [List Statistics](#) [List Failed Action](#) [Help](#)

Userld	Priority	Actionld	ActionQueueId	Eventld	Subscriptionld	granUR	EnqueueTime	Remove Action
PrivUser	1	16524	16543	35277	687	UR:10:DsShESDTUR.UR:15:DsShSciServerUR:13:[PVC.DSSDSRV]:20.SC.M1B2E.001.120159	Mar 31 2004 4:45PM	<input type="button" value="Remove Action"/>
PrivUser	1	16528	16544	35278	686	UR:10:DsShESDTUR.UR:15:DsShSciServerUR:13:[PVC.DSSDSRV]:20.SC.M1B2T.001.120160	Mar 31 2004 4:45PM	<input type="button" value="Remove Action"/>
PrivUser	1	16671	16673	35864	686	UR:10:DsShESDTUR.UR:15:DsShSciServerUR:13:[PVC.DSSDSRV]:20.SC.M1B2T.001.121605	Jun 7 2004 5:52PM	<input type="button" value="Remove Action"/>
PrivUser	1	21407	21411	39192	687	UR:10:DsShESDTUR.UR:15:DsShSciServerUR:13:[PVC.DSSDSRV]:20.SC.M1B2E.001.126749	Feb 1 2005 7:31PM	<input type="button" value="Remove Action"/>
PrivUser	1	21408	21412	39193	686	UR:10:DsShESDTUR.UR:15:DsShSciServerUR:13:[PVC.DSSDSRV]:20.SC.M1B2T.001.126750	Feb 1 2005 7:36PM	<input type="button" value="Remove Action"/>