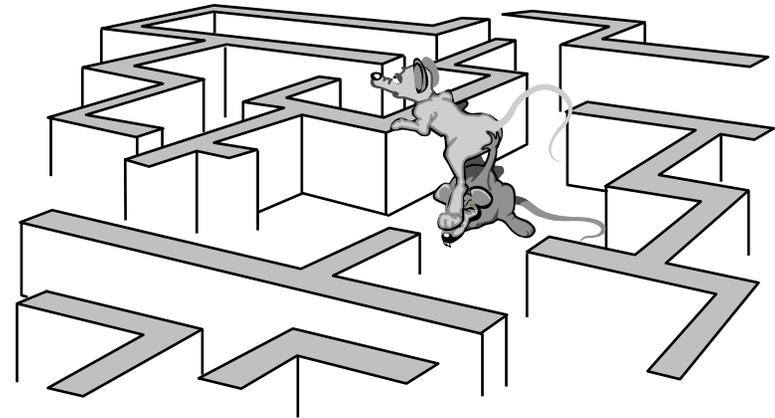


Archive Processing

April 2008

Overview of Lesson

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



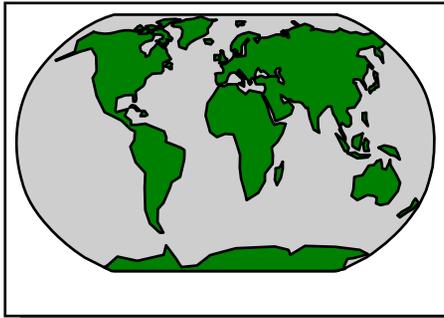
Objectives

- **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

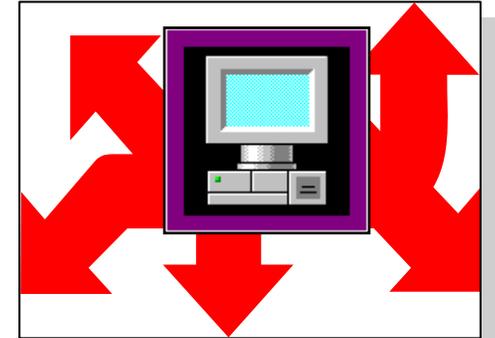
Objectives (Cont.)

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

Sources and Uses of Archive Data

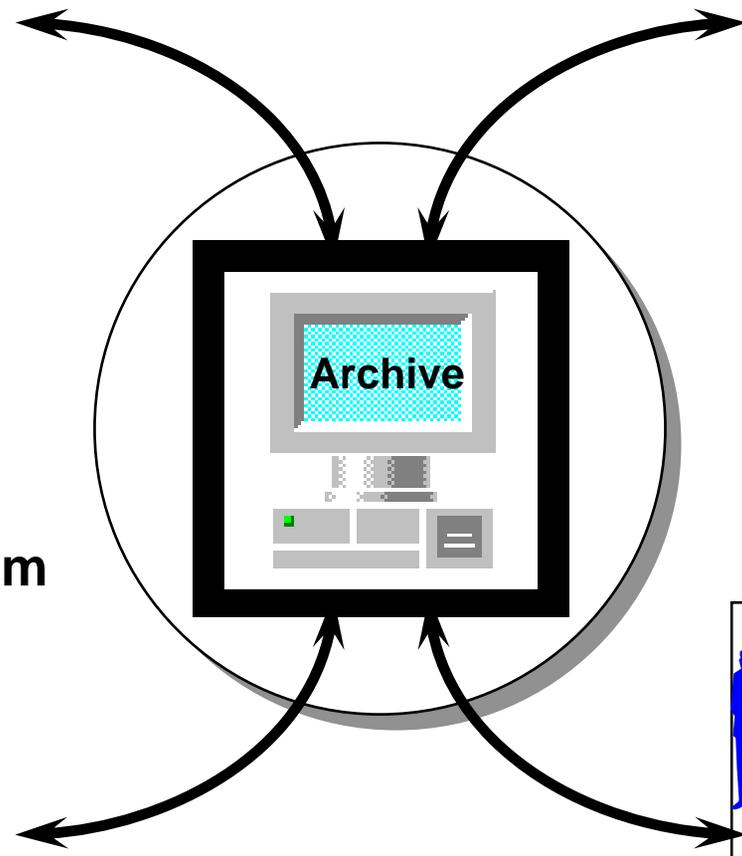
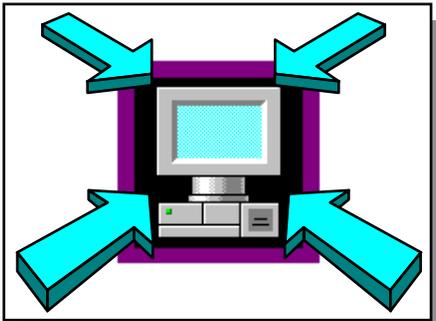


Other DAACs



Processing Subsystem

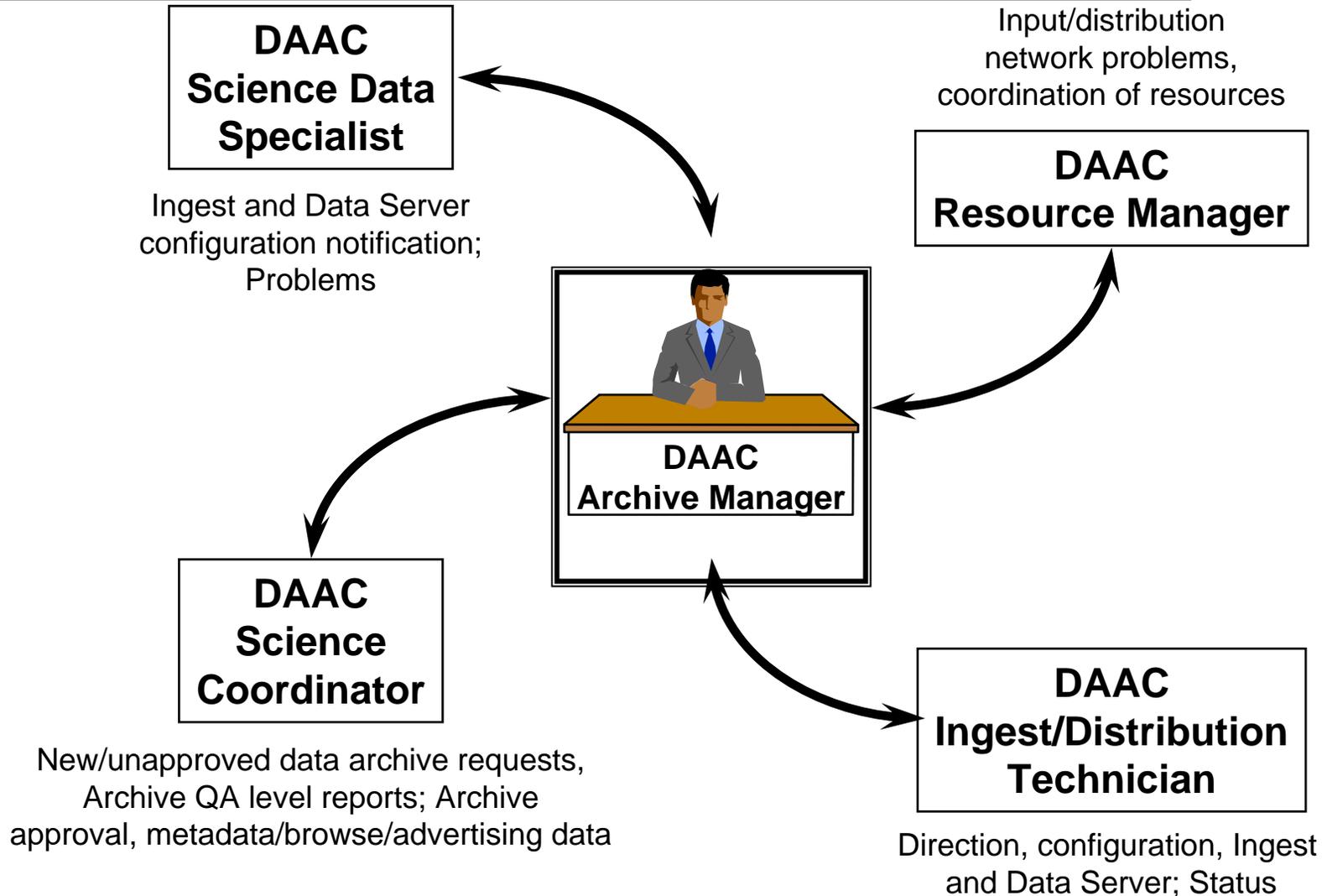
DPL Ingest Subsystem



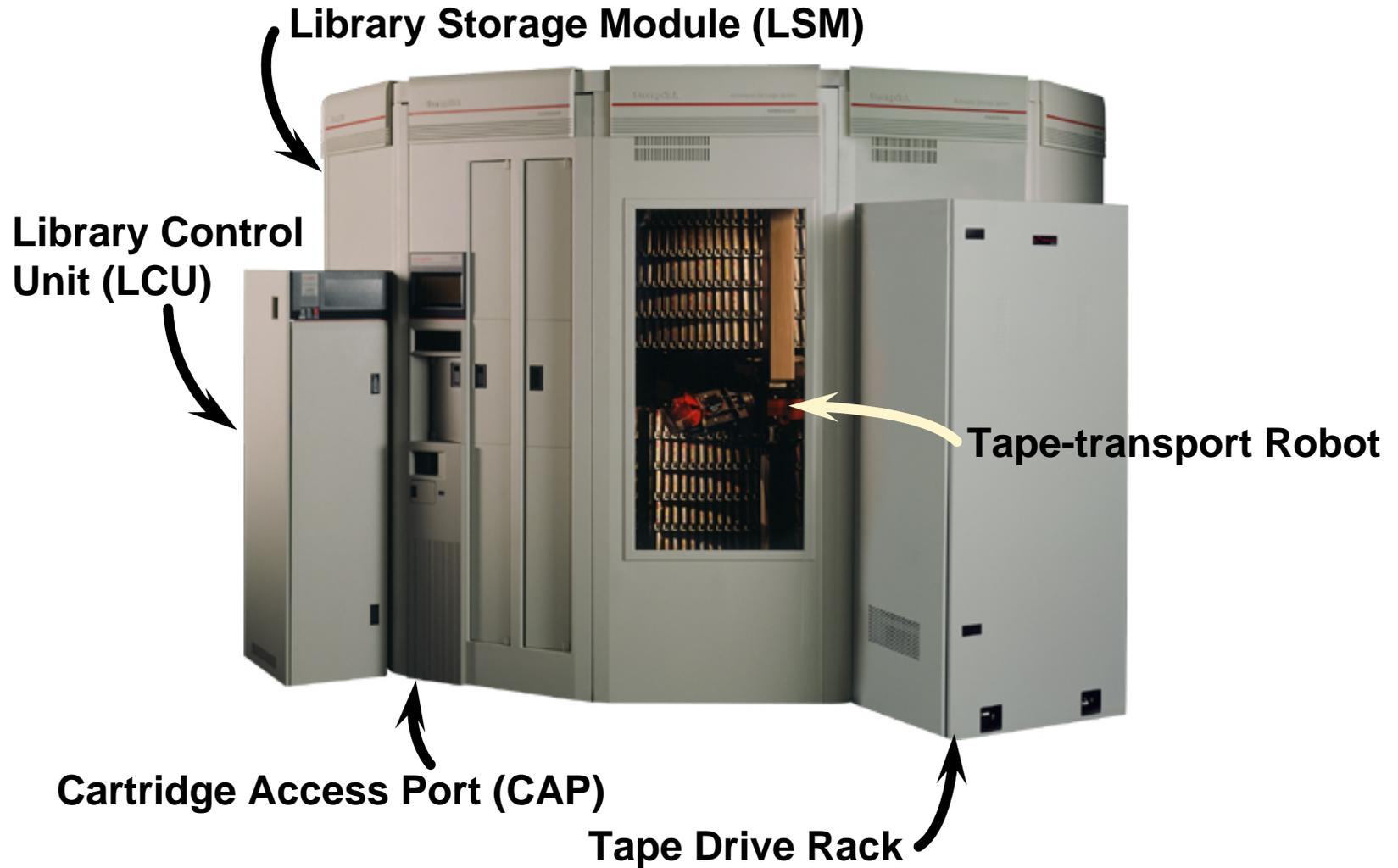
Authorized Users



DAAC Archive Manager Interfaces



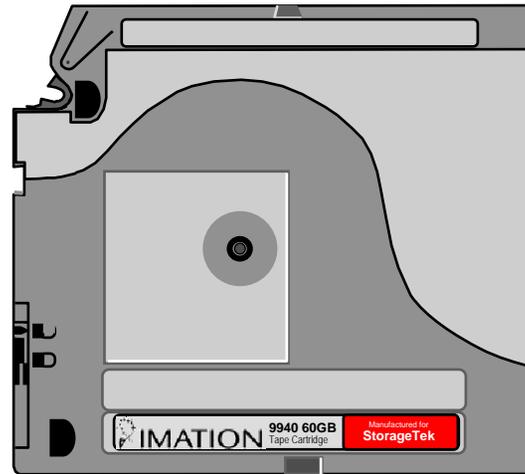
STK Powderhorn Data Storage



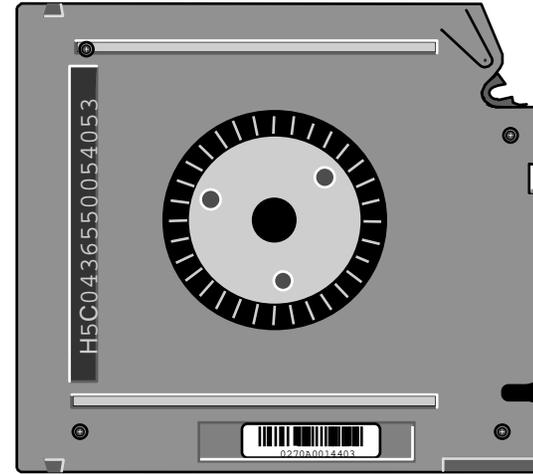
STK 9940 Tape System



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

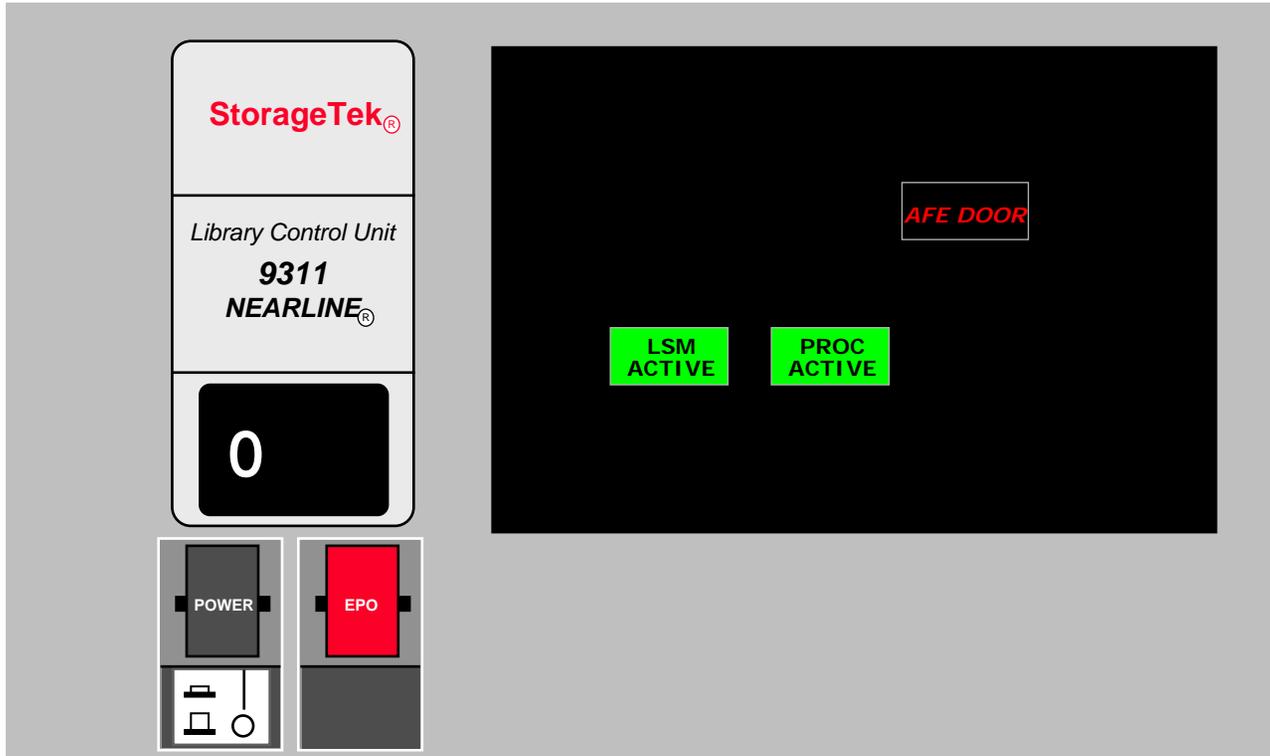
Automated Cartridge System Library Software (ACSLs)

Command	Function
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.

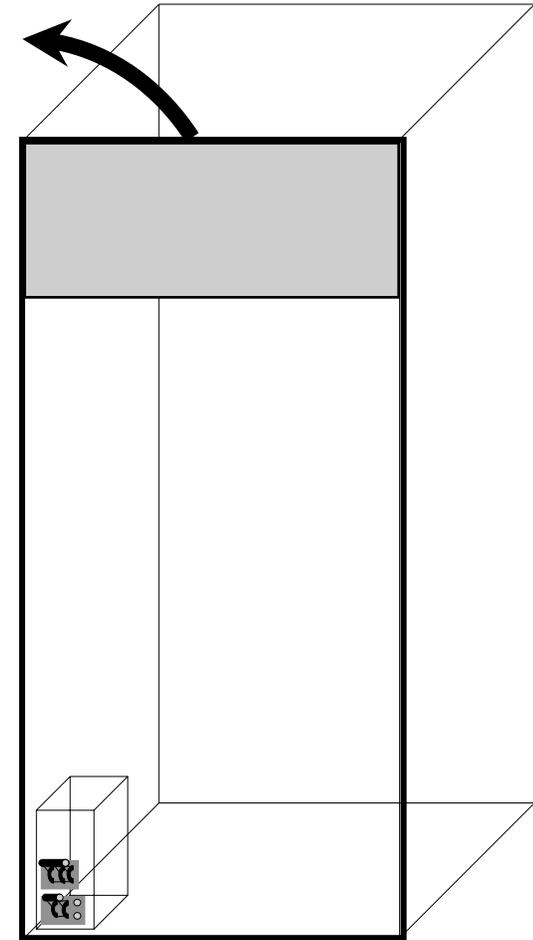
Automated Cartridge System Library Software (ACSL) (Cont.)

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

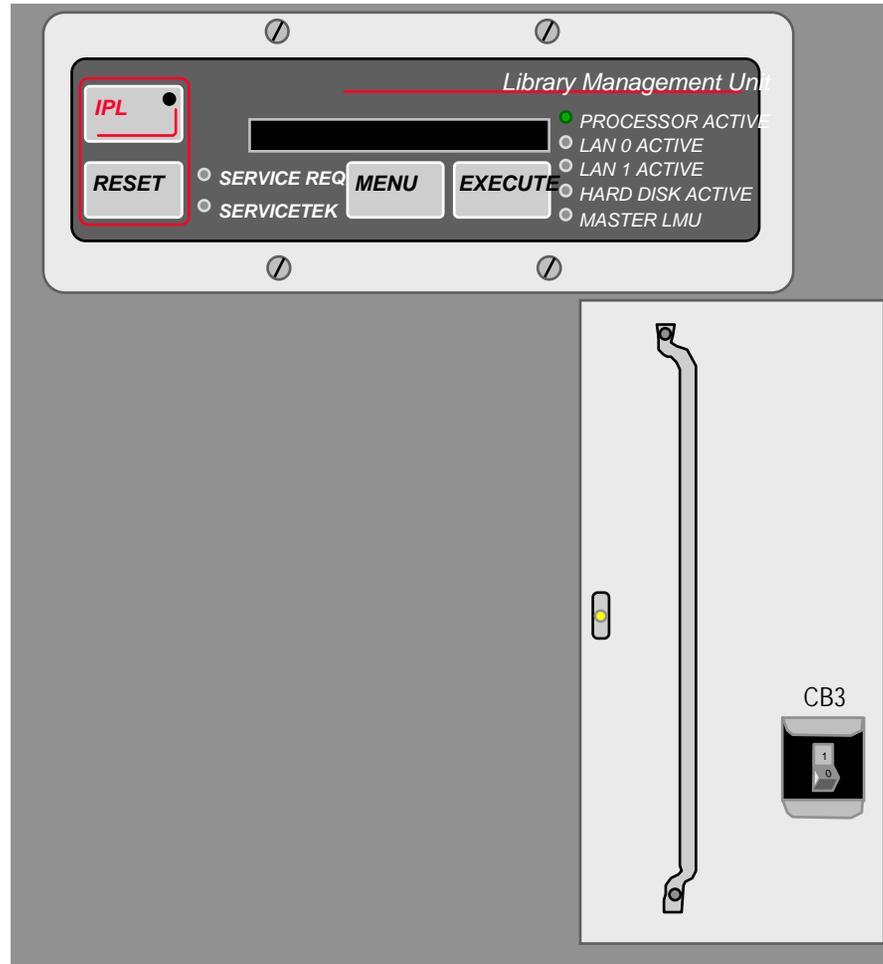
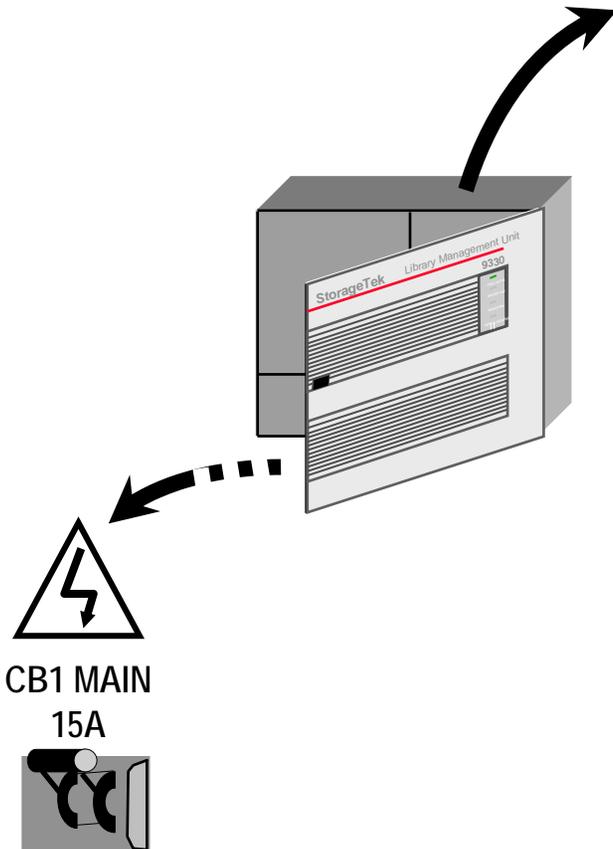
STK Controls/Displays: LCU



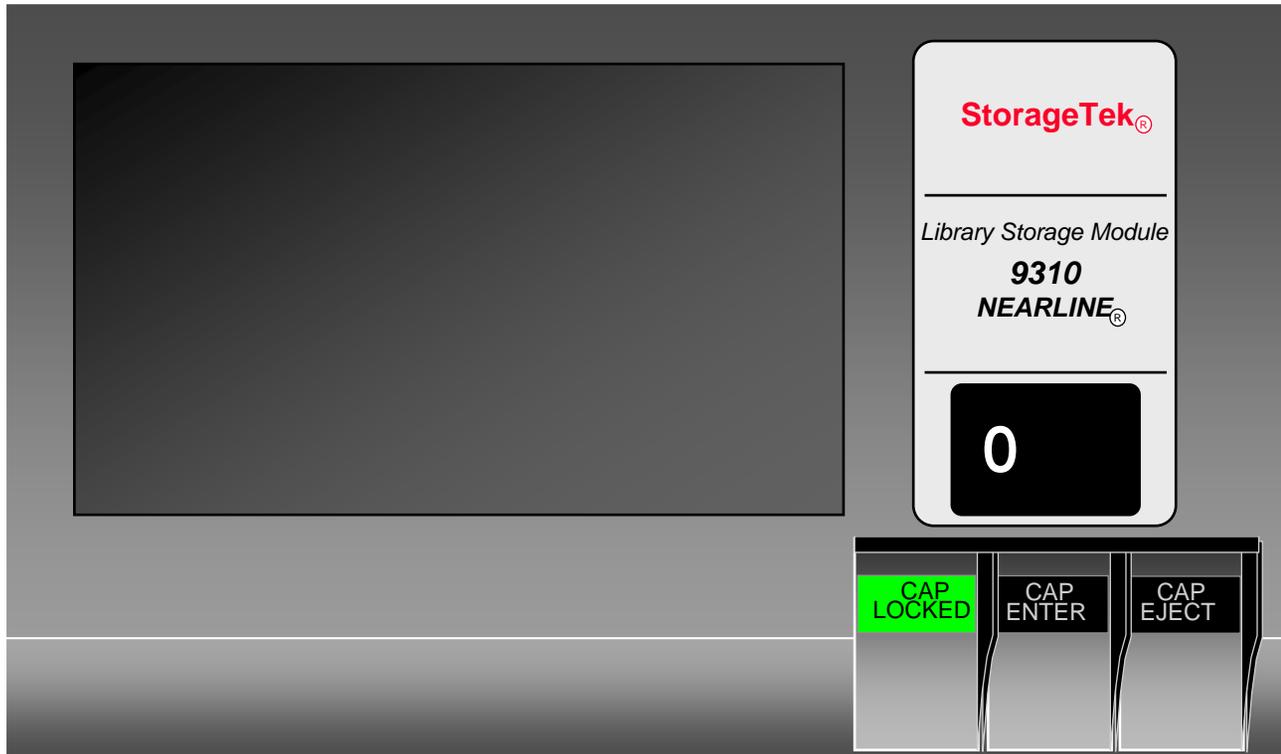
**LCU:
Circuit Breakers
Inside Cabinet**



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:

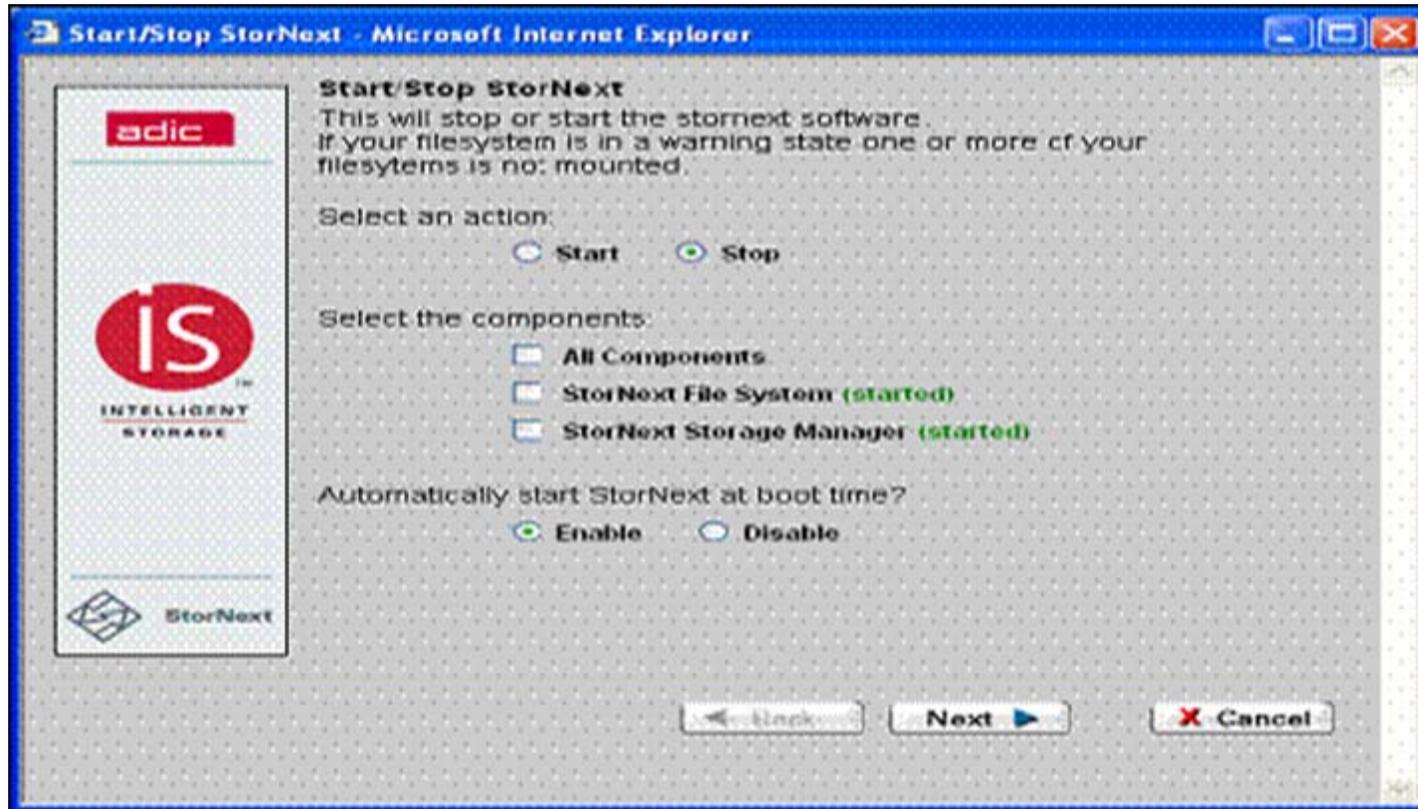
- File System Monitor:** A table showing system statistics for 'snfs1'. The table has columns for Total Space (GB), Used Space (GB), Free Space (GB), Total Files, # Stora, # Trunc, Candidates, Candidates Connections, and Status. The values are: Total Space: 22.00, Used Space: 2.40, Free Space: 19.60, Total Files: 214, # Stora: Refresh, # Trunc: Refresh, Candidates: 1, Candidates Connections: 1, Status: [Progress Indicators].
- Library Monitor:** A table showing library details. The table has columns for Library, Library Type, Library State, Number of Drives, Capacity, and Fill Level. The data rows are:
 - ecel_archive1: Library Type: SCCSP, Library State: Online, Number of Drives: 2, Capacity: 60, Fill Level: 9.
 - snfs_archive_dir1: State: Mounted, Status: Online, Mounted Media: 00000.
 - snfs_archive_dir2: State: Unmounted, Status: Online.
 - snfs1: Library Type: Vault, Library State: Online, Number of Drives: 0, Capacity: 600000, Fill Level: 2.
- Storage Disk Monitor:** A table showing disk status. The table has columns for Name, Space (GB), Used Space (GB), State, Count, and # Files. The data row is: Storage_Disk_1, Space (GB): 27.44, Used Space (GB): 0.59, State: Online, Count: 1, # Files: 100.

The bottom status bar shows 'Systems Status' with a red icon and 'StorNext Server' with a green 'Active' indicator.

StorNext GUI Admin Drop Down

The screenshot displays the StorNext GUI Admin interface. At the top, the 'edic Intelligent Storage™' logo is on the left, and 'StorNext' is centered. Navigation tabs include 'Config', 'Admin', 'Reports', 'Service', and 'Help'. A left sidebar contains 'Home', 'SNFS', and 'BNSM'. The 'Admin' dropdown menu is open, listing various actions such as 'Access StorNext Logs', 'User Access Control', 'Download Client Software', 'Library Operator Interface', 'Remove/Move Media', 'Run Backup', 'Schedule Events', and 'Start/Stop StorNext'. Below the menu, the 'File System' section shows a table with columns for 'File System', '# Files', '# Items', '# Items', and '# Connections'. The first row shows 'ssh' with 20 files, 2 items, 2 items, and 1 connection. The second row shows 'S' with 8 files, N/A items, N/A items, and 1 connection. A 'Refresh Rate' dropdown is set to 'No Refresh'. Below this is the 'Library Monitor' section with a 'Refresh' button and another 'Refresh Rate' dropdown. It contains a table with columns for 'State', 'Library Name', 'Library Type', 'Number of Drives', 'Capacity', and 'Fill Level'. The first row shows 'ssh' with 'ssh_archive1' library, 'SDDS' type, 2 drives, 60 capacity, and 19 fill level. Below are 'ssh_archive1_d1' and 'ssh_archive1_d2' with 'Free' type and empty drive/capacity fields. The 'Storage Disk Monitor' section has a table with columns for 'State', 'Storage Disk Name', 'Space (GB)', 'Used Space (GB)', 'Copy #', and '# Files'. The first row shows 'Storage_Disk_1' with 37.65 space, 9.81 used space, 3 copies, and 0 files. At the bottom, a 'System Status' indicator shows 'spock' as '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.

OK Cancel

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

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](#) [End Session](#)

[Refresh Home Page](#)

Screen Refresh Rate: (in Secs) Last Screen Refresh on Mon Aug 18 12:21:23 EDT 2008

Active Insert Processes: rows

Active Insert Status Filter: Pending Validated Copied Checksummed Extracted

Summary of Data Pool File System(s)							
File System Path	Ingest Status	DPL Insert Status	Free Space	Used Space Updated	Free Space Flag	Availability	Min Freed Space
DEFAULT /datapool/OPS/user/FS1/	<input checked="" type="radio"/> active	<input checked="" type="radio"/> active	972 GB	11% Aug 18 2008 12:20PM	State : Y Last Changed: Apr 3 2008 11:22AM	State : Y Last changed:	10
FS2 /datapool/OPS/user/FS2/	<input checked="" type="radio"/> active	<input checked="" type="radio"/> active	1087 GB	1% Aug 18 2008 12:20PM	State : Y Last Changed:	State : Y Last changed:	10

Summary of Active Processes	
Maximum allowed processes	20000
Maximum allowed processes from archive cache	20

DPM GUI: File System Information 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

Screen Refresh Rate: Never (dropdown) Last Screen Refresh on Mon Aug 18 12:21:59 EDT 2008 Apply

File System Information							
File System Path	Ingest Status	DPL Insert Status	Free Space	Used Space Updated	Free Space Flag	Availability	Min Fr (in M)
DEFAULT /datapool/OPS/user/FS1/	Active	Active	972 GB	11% Aug 18 2008 12:20PM	State : Y Last Changed: Apr 3 2008 11:22AM	State : Y Last changed:	
FS2 /datapool/OPS/user/FS2/	Active	Active	1087 GB	1% Aug 18 2008 12:20PM	State : Y Last Changed:	State : Y Last changed:	

[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://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmFileSystem.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 "Data Pool Maintenance" logo and the text "OPS". Below the header is a navigation menu with the following items: [Home Page](#), [Batch Summary](#), [List Insert Queue](#), [Collection Groups](#), [Themes](#), and [Data Pool File Systems](#). Under "Data Pool File Systems", there are sub-links: [Cloud Cover](#), [Configuration Parameters](#), [Aging Parameters](#), and [Help](#).

The central form is titled "Add New File System" and contains the following fields and controls:

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
Return to previous page	<input type="button" value="Apply Change"/>

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

DPM GUI: Add New 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](#)

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
Return to previous page	<input type="button" value="Apply Change"/>

DPM GUI: Modify File System Information Page

The screenshot displays the 'Data Pool Maintenance' web application in Mozilla Firefox. The browser's address bar shows the URL: `http://f4dpl01.hitc.com:22101/cgi-bin/EcDlDpmFileSystem.pl`. The application header includes the title 'Data Pool Maintenance' and navigation links such as 'Home Page', 'Batch Summary', 'List Insert Queue', 'Collection Groups', 'Themes', and 'Data Pool File Systems'. A 'Screen Refresh Rate' dropdown is set to 'Never', with the last refresh time noted as 'Mon Aug 18 11:53:12 EDT 2008'.

The main content area is titled 'File System Information' and contains a table with the following data:

File System Path	Ingest Status	DPL Insert Status	Free Space	Used Space Updated	Free Space Flag	Availability	Min Fy (in M)
DEFAULT /datapool/OPS/user/FS1/	Active	Active	972 GB	11% Aug 18 2008 11:50AM	State : Y Last Changed: Apr 3 2008 11:22AM	State : Y Last changed:	
FS2 /datapool/OPS/user/FS2/	Active	Active	1087 GB	1% Aug 18 2008 11:50AM	State : Y Last Changed:	State : Y Last changed:	

Below the table, there are two links: [Add New File System](#) and [Modify File System](#).

DPM GUI: Cloud Cover Information 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](#)

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

[Add New Cloud Cover](#) [Modify Source Description](#)

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://f4hel01.hitc.com:22181/cgi-bin/EcDIDpmCloudCover.pl?Add". The browser's status bar at the bottom shows "Done".

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

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

- Source Type:** A dropdown menu currently showing "PSA".
- Source Name:** An empty text input field.
- Source Description:** An empty text input field.
- Return to previous page:** A link with a left-pointing arrow.
- Apply Change:** A button.

DPM GUI: Modify Cloud Cover 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://f4he01.hitc.com:22181/cgi-bin/EcDlDpmCloudCover.pl?Modify". The browser's status bar at the bottom indicates "Done".

The main content area features a teal header with the text "Data Pool Maintenance" and "DEV08" on the right. Below the header is a navigation menu with the following items: Home Page, Cloud Cover (highlighted), Batch Summary, Configuration Parameters, List Insert Queue, Aging Parameters, Collection Groups, Help, Themes, and Data Pool File Systems.

The central part of the page is a form titled "Modify Source Description". It contains a table with the following structure:

Source Type	Source Name	Source Description	Click on box to modify
Core Metadata	QAPercentCloudCover	<input type="text" value="test"/>	<input type="checkbox"/>

Below the table, there is a link "[Return to previous page](#)" and an "Apply Change" button.

DPM GUI: Batch Summary 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](#)

Batch Summary

Screen Refresh Rate: (in Minutes) Last Screen Refresh on: Mon Aug 27 11:42:02 EDT 2007

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

DPM GUI: List Insert Queue Page

The screenshot shows the 'Data Pool Maintenance' GUI in mode DEV05, accessed via Netscape. The page features a navigation menu with links for Home Page, Batch Summary, List Insert Queue, Collection Groups, Themes, Data Pool File Systems, Compression Algorithms, Cloud Cover, and Configuration Parameters. Below the menu are filter options for File System (ALL), Batch Label (ALL), and Status (COMPLETE), with an 'Apply Filter' button.

A summary box indicates 'Inserts Left to Process on Thu Apr 29 14:55:31 EDT 2004' with a count of 1.

The main content area displays a 'Detailed list of Data Pool Inserts using Current Filter (Number in List - 3)'. A note instructs users to click on the 'NONECS' link in the Data Source column to view the XML file associated with the insert.

Data Source	Batch Label	Dispatch Priority	Request ID	Sub ID	ECS ID	Collection	Version	Science Granules and/or Metadata	Enqueue Time	Retries	Status	Click on Box to Cancel
NONECS	idey/Tes2	10	--	1240	--	AIRHASC1	001	metadata only	Apr 29 2004 2:47 PM	10	COMPLETE	■
ECS	H2001	1	--	-1	10419	AST_LIBT	001	science and metadata	Apr 28 2004 5:28 PM	--	COMPLETE	■
ECS	batchfile	1	--	-1	13214	AST_08	001	science and metadata	Apr 28 2004 3:14 PM	--	COMPLETE	■

At the bottom of the table area, there is a 'Continue' link and an 'Apply Change' button.

DPM GUI: List of Configuration Parameters Page

Data Pool Maintenance DEV05

[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 Param
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="5"/> The time interval, in minutes, between checks to remove closed alerts from the database	<input type="checkbox"/>
AlertNotifyEmailAddress	<input type="text" value="peter_leon_s_smith@raytheon.com"/> Email address to which alert messages will be sent	<input type="checkbox"/>
AlertRetentionPeriod	<input type="text" value="48"/> The retention time, in hours, for closed alerts to remain in the database	<input type="checkbox"/>
AlertRetryInterval	<input type="text" value="1"/> The retry interval, in minutes, in between attempts to automatically clear an alert condition	<input type="checkbox"/>
BatchSummaryAutoRefresh	<input type="text" value="1"/> Auto Refresh Rate for Batch Summary Screen	<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](#)

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

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](#)

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

Data Source	Group ID (Click for managing collections)	Display Name	Description
ECS	ACRM	ACRM	All collections/granules from the ACRIM mission
ECS	AIRA	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission
ECS	AMSA	AMSA	AMSR-E collections/granules from the Aqua mission
ECS	ASTT	ASTT	ASTER collections/granules from the Terra mission
ECS	BRWS	BRWS	Browse collections/granules
ECS	DASP	DASP	Data Assimilation System Products
ECS	DASP2	DASP2	DASP2
ECS	DASP3	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
Browse	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 shows the URL "http://www.earthdata.nasa.gov". The page features a navigation menu with the following items: Home Page, Cloud Cover, Batch Summary, Configuration Parameters, List Insert Queue, Aging Parameters, Collection Groups (highlighted), 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

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 page, there are two buttons: [Modify Collection](#) and [Return to previous page](#).

DPM GUI: Modify 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

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 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

Collections Not In Data Pool

Collection (Click on collection to add)	Version	Description
AE_WkOcn	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.
AIRIBDBR	003	AIRS/Aqua L1B daily summary browse product (Cloudy Radiances)
AIRIBRAD	003	AIRS/Aqua AIRS infrared geolocated and calibrated radiances in units of Watts/cm**2/micron/steradian
AIRXSGSM	002	AIRS/Aqua Level 2 Surface Marine matchup per-granule statistics vs. previous retrieval
AIRXSTAT	001	AIRS/Aqua Level 2 per-scan statistics vs. truth
AMSREL1A	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.
AST14DEM	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

Done

DPM GUI: Modify Collection Group Page

Data Pool Maintenance

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

Compression Algorithms Cloud Cover Configuration Parameters Aging Parameters Help

Modify Collection Group

Data Source	Group ID (Click to manage collection)	Display Name	Description	Check Box to Modify
ECS	ACRM	ACRM	All collections/granules from the ACRM mission	<input type="checkbox"/>
ECS	AIRA	AIRA	AIRS/AMSUMHS collections/granules from the Aqua mission	<input type="checkbox"/>
ECS	AL22	AL22	Description	<input type="checkbox"/>
ECS	AMSA	AMSA	AMSR-E collections/granules from the Aqua mission	<input type="checkbox"/>
ECS	ASTT	ASTT	ASTER collections/granules from the Terra mission	<input type="checkbox"/>
ECS	BRWS	BRWS	Browse collections/granules	<input type="checkbox"/>
ECS	DASP	DASP	Data Assimilation System Products	<input type="checkbox"/>
ECS	OTHR	OTHR	Other Products. This group is used for ancillary products or other non-science products	<input type="checkbox"/>
ECS	SAG3	SAG3	All collections/granules from the SAGE III mission	<input type="checkbox"/>
ECS	SECDEMO	SECDEMO	group for security demo going well	<input type="checkbox"/>
NON-ECS	TEST	TEST	This NON ECS group is to be used by the WEB ACCESS folks - don't delete any granules from it	<input type="checkbox"/>
ECS	TESTONE	TESTONE	This is a test	<input type="checkbox"/>
ECS	TEST_ADD	TEST_ADD	Testing for adding collection to this group	<input type="checkbox"/>
NON-ECS	UNITTTESTSEC	UNITTTESTSEC	Unit test demo for security ticket	<input type="checkbox"/>

[Return to previous page](#)

NOTE: By changing the display name, previously established links may not be functional anymore

DPM GUI: Detailed List of Data Pool Themes Page

The screenshot shows a Netscape browser window titled "Data Pool Maintenance GUI in mode DEV08". The address bar contains the URL "http://f4hel01.hitc.com:22181/cg-bin/EcOldpmThemesFrame.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 controls: "Web Visible" (set to ALL), "Insert Enabled" (set to ALL), and "Beginning Letters" (empty), with an "Apply Filter" button.

The main content area is titled "Detailed list of Data Pool Themes" and contains a table with the following data:

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"/>

At the bottom of the table area, there are links for "Add NewTheme" and "Modify Theme", and an "Apply Change" button.

DPM GUI: Add New 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/EcDIDpmThemesFrame.pl". The page content includes a header with the title "Data Pool Maintenance" and "DEV08" on the right. Below the header is a navigation menu with links: Home Page, Cloud Cover, Batch Summary, Configuration Parameters, List Insert Queue, Aging Parameters, Collection Groups, Help, Themes (highlighted), and Data Pool File Systems. There are also filter controls for "Web Visible" (set to ALL), "Insert Enabled" (set to ALL), and "Beginning Letters" with an "Apply Filter" button. The main content area is titled "Add New Theme" and contains a table with the following structure:

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

At the bottom of the form, there is a link "[Return to theme list](#)" and an "Apply Change" button. The browser's taskbar at the bottom shows various system icons.

DPM GUI: Modify Theme 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

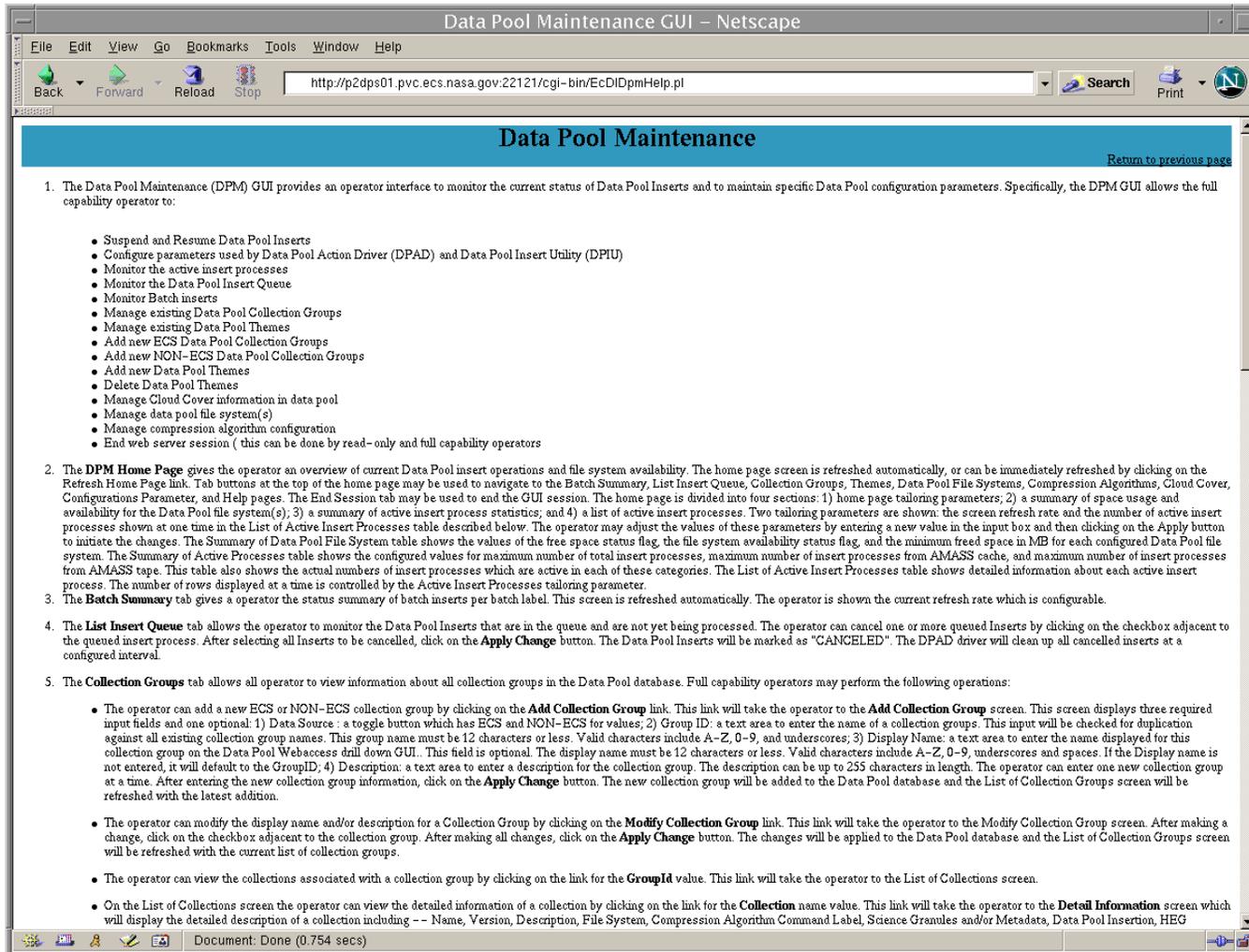
Web Visible: ALL Insert Enabled: ALL Beginning Letters: Apply Filter

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"/>

[Return to previous page](#) [Return to Main Theme Page](#)

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 text 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 freed 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 groups. 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_e d_a d_r d_d**
- **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: ENTERED Do Filtering

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

Filter: On Off By Status: ENTERED 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
 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

File Edit View Go Communicator Help

Location: 1u.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

Rows in Page: Showing of 4 Order Items: << >>

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: Showing of 4 Order Items: << >>

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

Document Done

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/MODPTIKN.001/2000.08.25//labtest_2013308902
 Output: nochange
 Projection:
 Output Format: hdfeos

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 features the "DataPool Order Status & Control" logo and navigation links for "Queue Control", "Orders", "Order Items", and "Help".

Processing and Queue Status

HEG Front End Server:	UP	Exit Gracefully	Exit Immediately (No Cleanup)
HEG Front End Processing State:	Process orders in the order queue		
Maximum number of HEG Converter Processes:	10		
Maximum Order Queue Size:	100		

Apply Changes Reset

U.S. GOVERNMENT COMPUTER
YOU SHOULD HAVE NO EXPECTATION OF PRIVACY
By continuing, you consent in your keystrokes and data content being monitored

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**

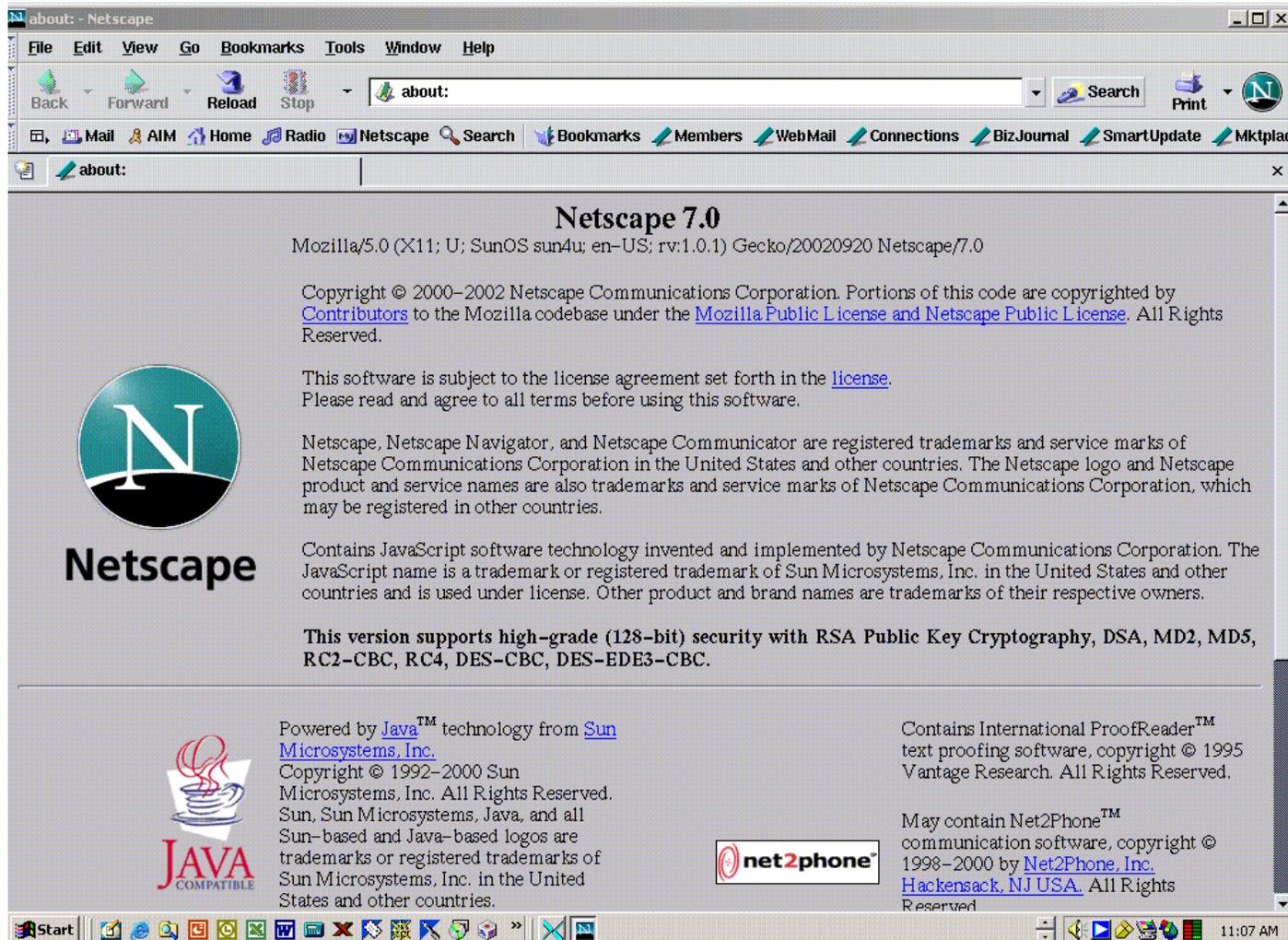
Using the Spatial Subscription Server GUI (Cont.)

- **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:

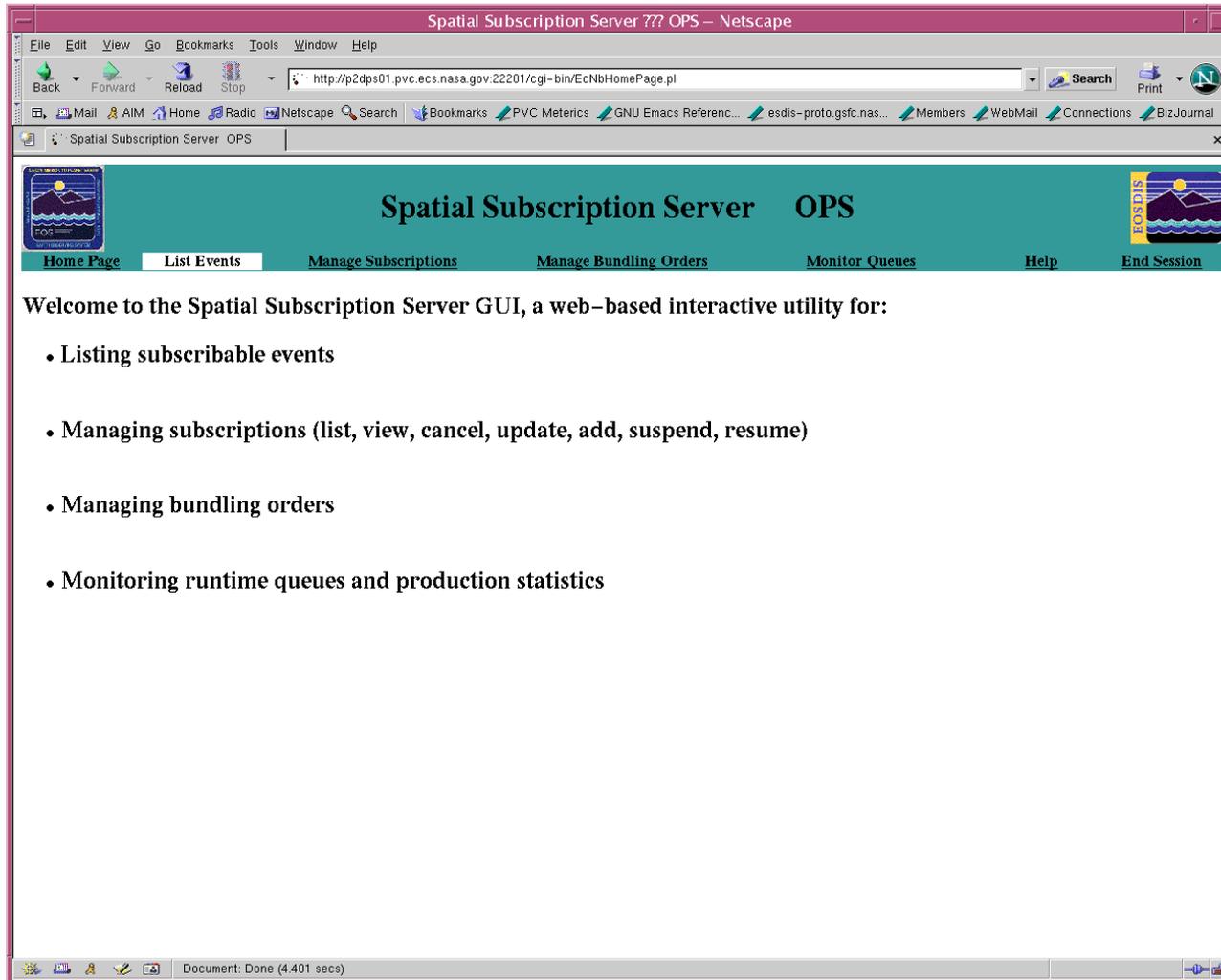
Password:

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
ACR3L20M	001	DELETE
ACR3L20M	001	INSERT
ACR3L20M	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

Document: Done (42.497 secs)

Spatial Subscription Server GUI Manage Subscriptions Page

The screenshot shows a Netscape browser window displaying the 'Spatial Subscription Server OPS' website. The browser's address bar shows the URL: `http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbSubFrame.pl`. The website header includes the title 'Spatial Subscription Server OPS' and a navigation menu with links: Home Page, List Events, Manage Subscriptions (selected), Add Subscriptions, List Themes, Monitor Queues, and Help. Below the navigation menu, there are filter controls: User (windhoek_anc), Collection (ALL), Status (ALL), DataPool (ALL), and a Filter button. A 'Change Collection Display To:' dropdown menu is set to 'TextEntry'.

The main content area displays a table of subscriptions with the following columns: Subscription Id, User, Collection, Version, Event Type, Status, DataPool, Start Date, Expiration Date, and Time Last Updated. The table contains 10 rows of subscription data.

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

The browser's status bar at the bottom indicates 'Document: Done (17.412 secs)'.

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 for "Home Page", "List Events", "Manage Subscriptions", "Add Subscriptions", "List Themes", "Monitor Queues", and "Help".

The main content area contains the following form fields:

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

Below the form fields 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

Spatial Subscription Server OPS – Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbSubscriptionChoose.pl> Search Print

Spatial Subscription Server OPS

 **Spatial Subscription Server OPS** 

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

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.hitc.com
Media Format=FILEFORMAT
Media Type=FtpPush
FTP Information
User=userops
Password=*****
Host=t1spg03.vatc.ecs.nasa.gov
Directory=/data2/TS1/PUSH_DESTINATION/D2

[View another subscription](#) [Return to Home Page](#)

Document: Done (4.015 secs)

Spatial Subscription Server GUI Update Subscriptions Page

Update Subscription - Netscape

http://p2p01.gvc.ecs.nasa.gov:2201/vg-bvE/4Subscrip/Choose.pl

Spatial Subscription Server OPS

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

User ID [username] Status [Active]

Start Date (MM/DD/YYYY HH:MM) [02/12/2004 12:00]
 Expiration Date (MM/DD/YYYY HH:MM) [02/20/2005 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
 [0400001054]

(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

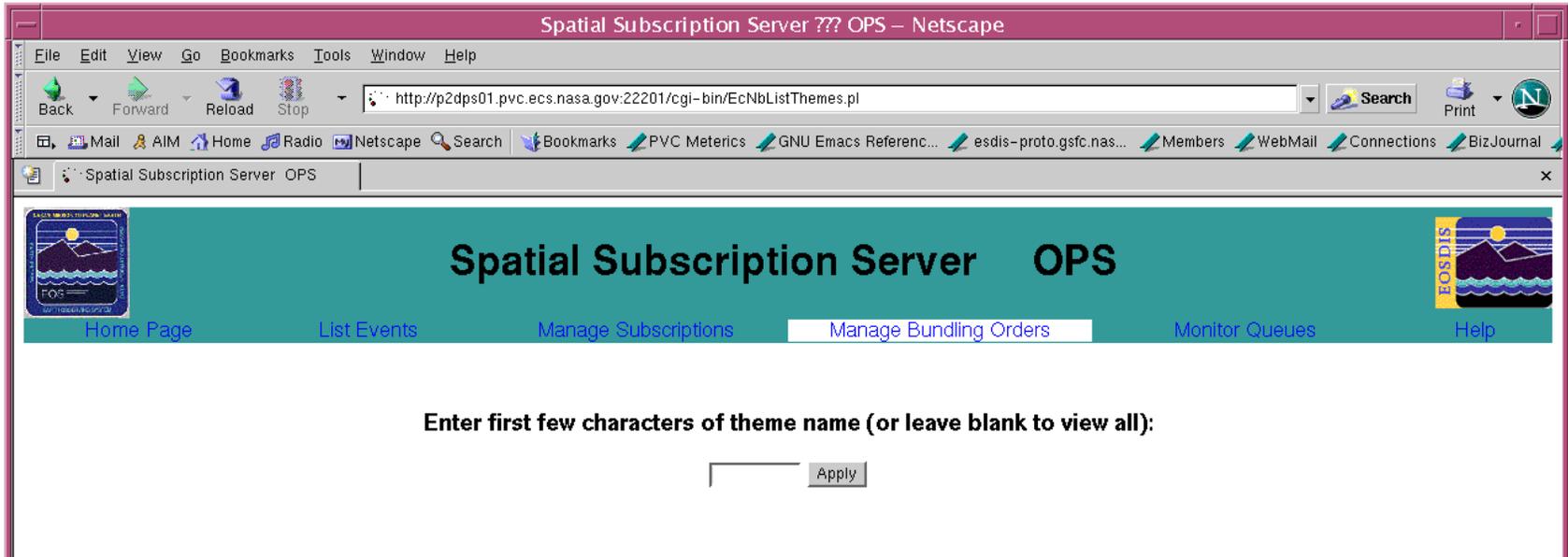
Action Address []
 User String []
 Metadata []

Data Pool Information

Retention Period [] (in days)
 Retention Priority [] (valid range 1 thru 255)
 Science Granules and/or Metadata []
 Check here to add them: 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 toolbar contains Back, Forward, Reload, Stop, Search, and Print buttons. The browser's status bar shows "Document: Done (1.993 secs)".

The main content area features a teal header with the text "Spatial Subscription Server OPS" and two logos. Below the header is a navigation menu with links: 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".

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 features a navigation menu with "Home Page", "List Events", "Manage Subscriptions", "Manage Bundling Orders", and "Monitor Queues". The "Manage Bundling Orders" section includes a "Bundling Order List" with filters for User (rginocch), MediaType (ALL), and Status (in(ALLCANCELLED)).

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	View Update Cancel
0400078765	cmshared	Oct 14 2003 5:59PM	Oct 13 2004 12:00AM	CDROM	ACTIVE	View Update Cancel List Subs Apply
0400079209	cmshared	Oct 22 2003 11:17AM	Oct 21 2004 12:00PM	scp	CANCELLED	View Update Cancel List Subs Apply
0400079392	cmshared	Oct 24 2003 2:48PM	Oct 23 2004 12:00PM	scp	CANCELLED	View Update Cancel List Subs Apply
0400079393	cmshared	Oct 24 2003 2:49PM	Oct 23 2004 12:00PM	scp	CANCELLED	View Update Cancel List Subs Apply

The detailed view for Bundling Order 0400079209 shows the following information:

- 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:** sawison@p0ms01u.ecs.nasa.gov
- Distribution Priority:** HIGH

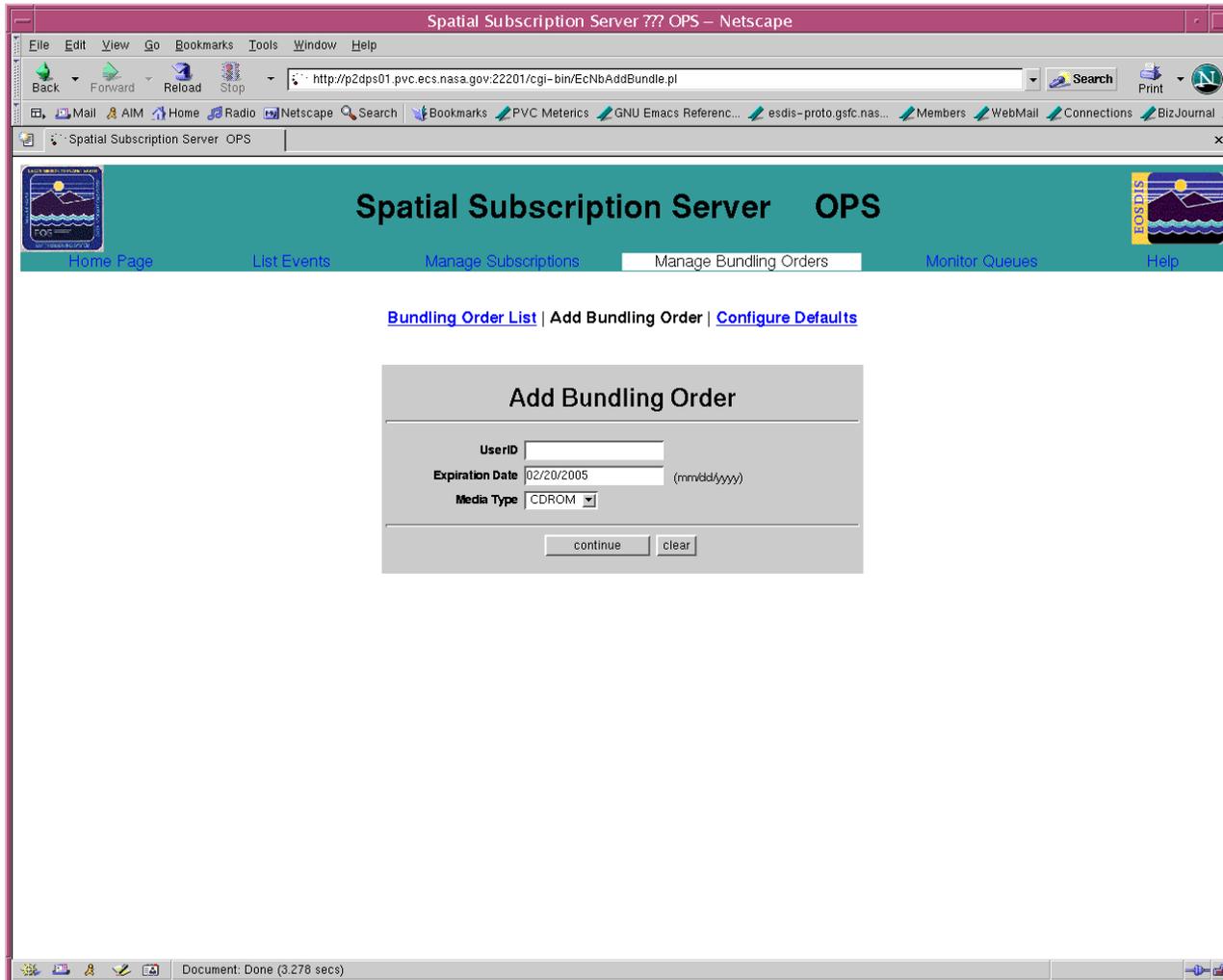
Completion Criteria:

- Minimum Bundle Size=5
- Minimum Granule Count=4
- Maximum Bundle Age=1

Buttons for "View", "Update", "Cancel", "List Subs", and "Apply" are visible for each order in the table.

Spatial Subscription Server GUI

Add Bundling Order Page



Spatial Subscription Server GUI

Add Bundling Order: Data Pages

Hard Media

The screenshot shows the 'Add Bundling Order' form for Hard Media. The form includes the following fields and sections:

- User Information:** User ID: cmshard, Expiration Date: 11/13/2003, Media Type: CDROM, Email Address: [text], User String: [text].
- Distribution Priority:** Xpress (dropdown).
- Shipping Information:** Street1: 1030 McConick Dr., Street2: [text], Street3: [text], City: Landover, State: Maryland, Country: United States, Zip Code: 20774, Phone number: 301-411-1111, FAX number: [text].
- Completion Criteria:** Minimum Bundle Size(Gb): 0.50, Minimum Grande Count: 10, Maximum Bundle Age(days): 1 (marked as a required field).
- Buttons:** Add Bundling Order, reset.

FTP Push

The screenshot shows the 'Add Bundling Order' form for FTP Push. The form includes the following fields and sections:

- User Information:** User ID: cmshard, Expiration Date: 11/13/2003, Media Type: FtpPush, Email Address: [text], User String: [text].
- Distribution Priority:** Xpress (dropdown).
- FtpPush Parameters:** FTP Username: [text], FTP Host: [text], FTP Password: [text], Rtype Password: [text], FTP Directory: [text].
- Completion Criteria:** Minimum Bundle Size(Gb): 10.5, Minimum Grande Count: 10, Maximum Bundle Age(days): 1 (marked as a required field).
- Buttons:** Add Bundling Order, reset.

FTP Pull

The screenshot shows the 'Add Bundling Order' form for FTP Pull. The form includes the following fields and sections:

- User Information:** User ID: cmshard, Expiration Date: 11/13/2003, Media Type: FtpPull, Email Address: [text], User String: [text].
- Distribution Priority:** Xpress (dropdown).
- Completion Criteria:** Minimum Bundle Size(Gb): 10, Minimum Grande Count: 10, Maximum Bundle Age(days): 1 (marked as a required field).
- 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

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/EcNbUpdateBundlingOrder.pl?userid=cmshared&mediatype=scp&status=CANCEL`. The browser's menu bar includes File, Edit, View, Go, Bookmarks, Tools, Window, and Help. The toolbar shows navigation buttons (Back, Forward, Reload, Stop), a search box, and a print button. The browser's status bar displays "Spatial Subscription Server OPS".

The main content area features a teal header with the text "Spatial Subscription Server OPS" and a navigation menu with links: Home Page, List Events, Manage Subscriptions, Manage Bundling Orders (highlighted), Monitor Queues, and Help. The logo for EOSDIS is visible on the right side of the header.

Below the header, the page title is "Update Bundling Order 0400079209". A note below the title says: "(Click [here](#) to bo back to the Bundling Order list.)".

The form contains the following fields:

UserID	<input type="text" value="cmshared"/>
Expiration Date (MM/DD/YYYY HH:MM)	<input type="text" value="10/21/2004 12:00"/>
Physical Media Type	<input type="text" value="scp"/>

At the bottom of the form are two buttons: "Update Bundling Order" and "reset".

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 0400011767

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: lorigin
FTP Password: *****
Retype Password: *****
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 0400012116

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

[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"/>

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 displaying the Spatial Subscription Server OPS interface. The page title is "Spatial Subscription Server OPS". The navigation menu includes 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). The main content area displays a table of actions.

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)

Document: Done (2.381 secs)

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](#)

UserId	Priority	ActionId	ActionQueueId	EventId	SubscriptionId	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"/>