



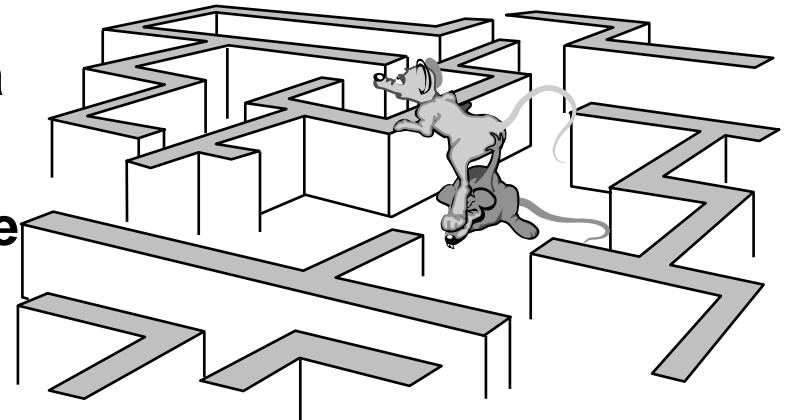
Archive Processing

July 2006

Overview of Lesson



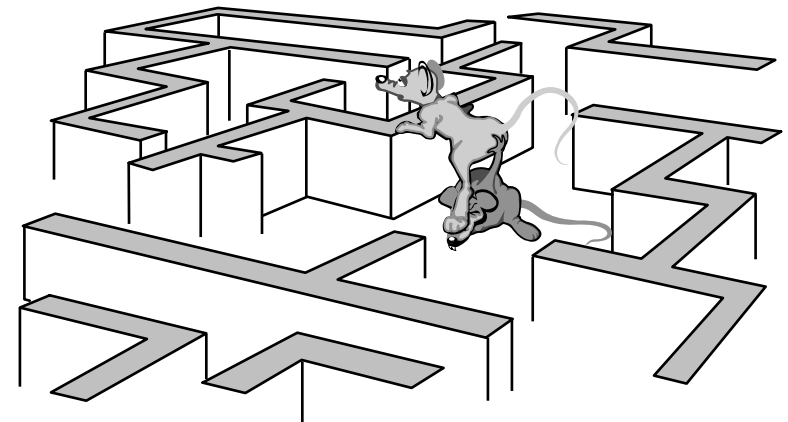
- **Introduction**
- **Archive Processing Topics**
 - **Archive Hardware and Software**
 - **Start and Shut Down AMASS**
 - **Archive Resources and Management**
 - **Insert and Retrieve Data**
 - **Delete Granules**
 - **Load Archive Media**
 - **Backup and Restore Archive Data**
 - **AMASS Graphical User Interface**
 - **Monitor and Troubleshoot Archive**
 - **Data Pool Management and Maintenance**



Overview of Lesson



- **Archive Processing Topics (Cont.)**
 - **Open Geospatial Consortium (OGC) Web Services (OWS) Support**
 - **Using the Spatial Subscription Server (NBSRV) GUI**
- **Practical Exercise**



Objectives



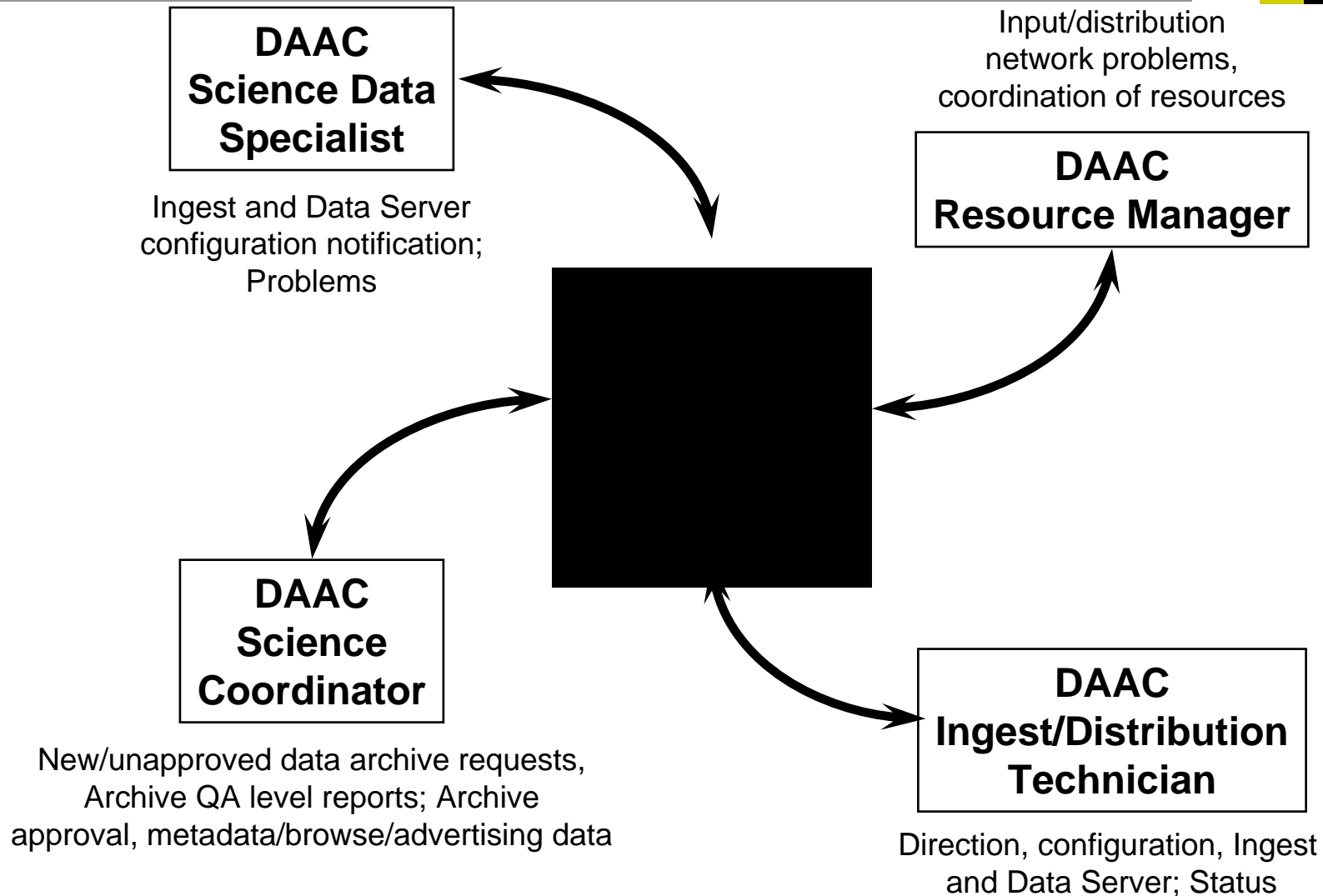
- **Overall: Proficiency in Archive Processing**
 - Describe Archive Manager roles and responsibilities
 - Identify and describe Archive storage resources
 - Start and shut down AMASS
 - Log in to system hosts
 - Describe archive storage element relationships and archive resource management
 - Use Granule Deletion tool to delete granules
 - Load and unload cartridges
 - Insert/retrieve data
 - Delete files from the archive
 - Backup archive data
 - Restore archive data
 - Use the AMASS Graphical User Interface

Objectives (Cont.)

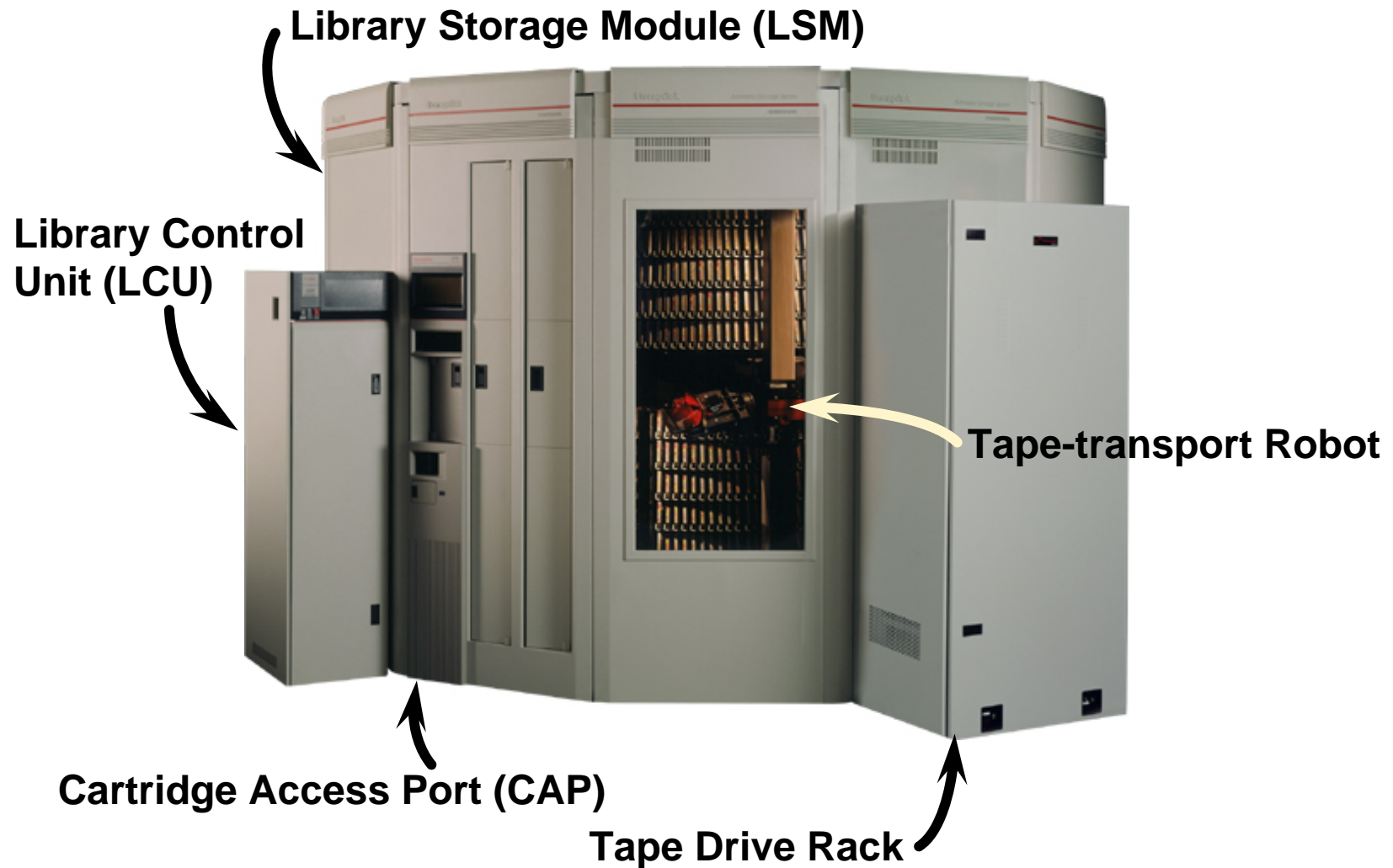


- **Overall: Proficiency in Archive Processing (Cont.)**
 - Monitor archive system and perform troubleshooting
 - Use GUIs, utilities, and scripts for Data Pool maintenance
- **STANDARDS:**
 - Lesson content (procedures in the lesson)
 - Mission Operation Procedures for the EMD Project (611-EMD-001)

DAAC Archive Manager Interfaces



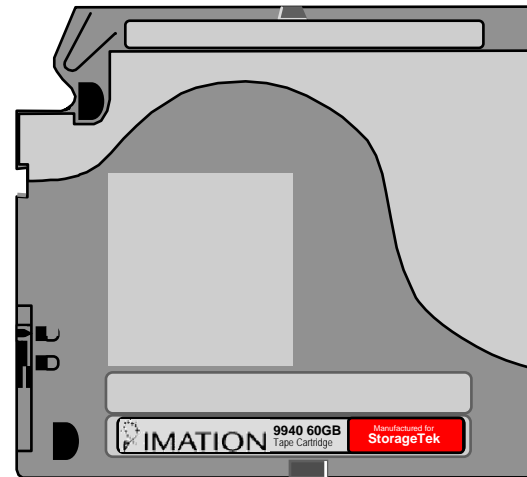
STK Powderhorn Data Storage



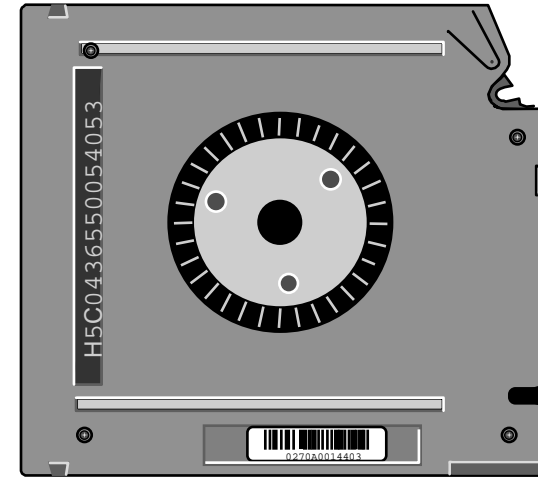
STK 9940 Tape System



9940 Tape
Drives

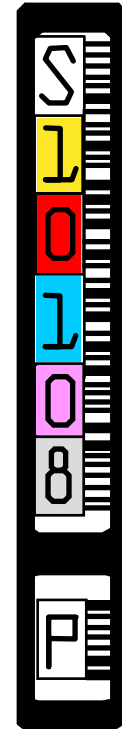


Front



Back

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

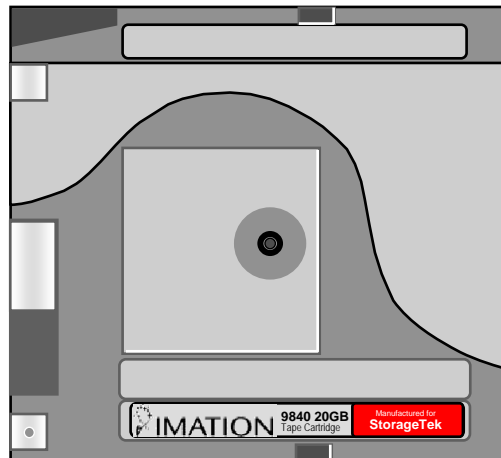


End View with
Barcode

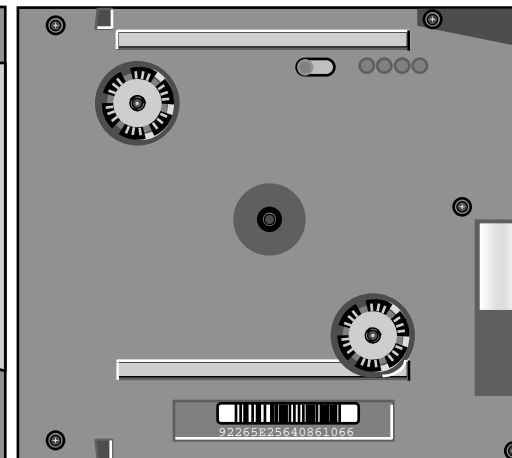
9840 Tape System for Browse Data



9840 Tape
Drives



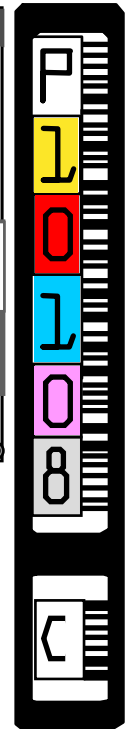
Front



Back

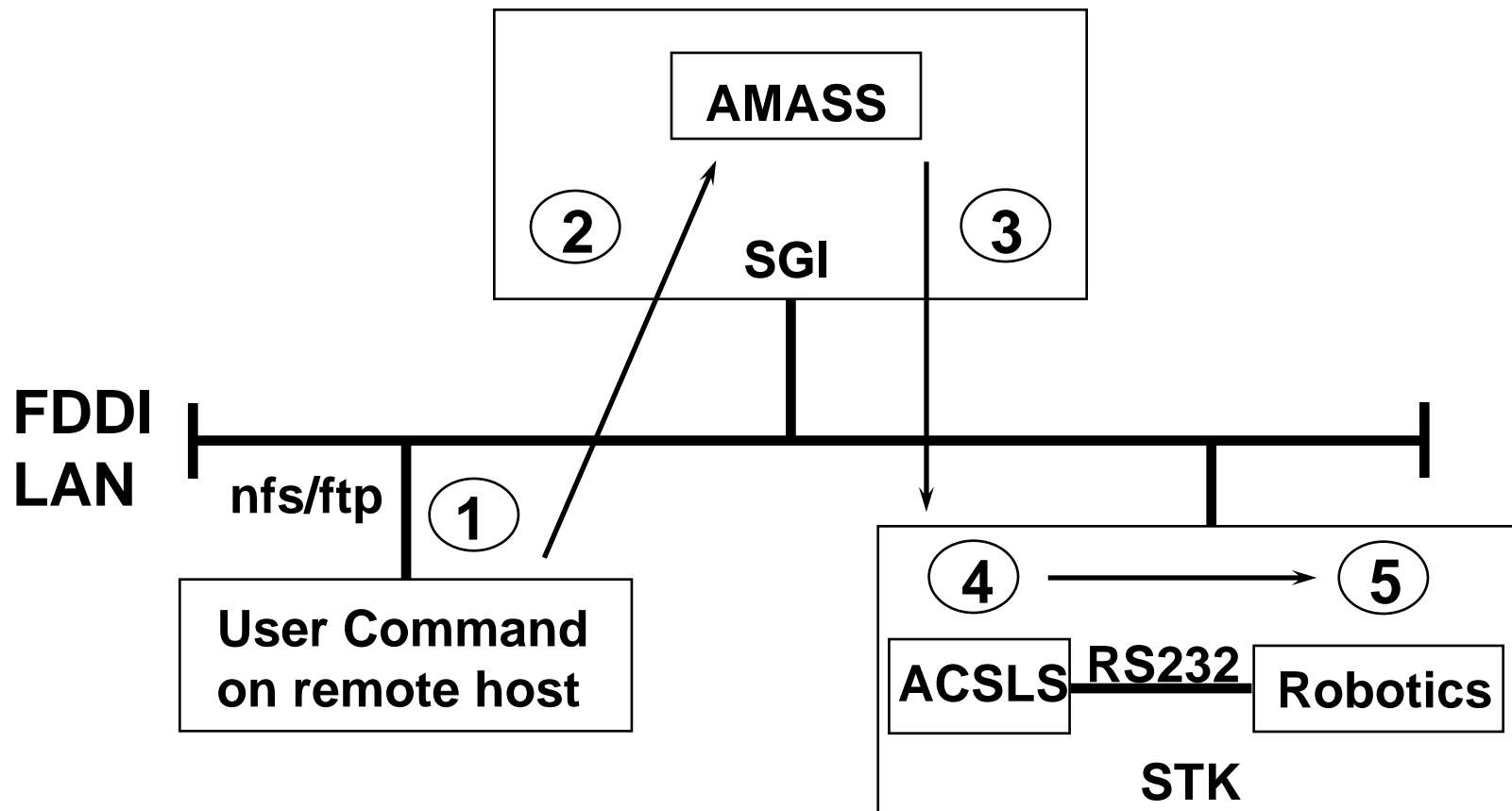
9840 Tape Cartridge

- 10 MB/sec uncompressed sustained data transfer rate
- 20 MB/sec compressed sustained data transfer rate
- 80 GB capacity per cartridge (compressed)
- Mid-point load for rapid search/access



End View with
Barcode

AMASS Control Path



Automated Cartridge System Library Software (ACSLS)



ACSLS Command Reference

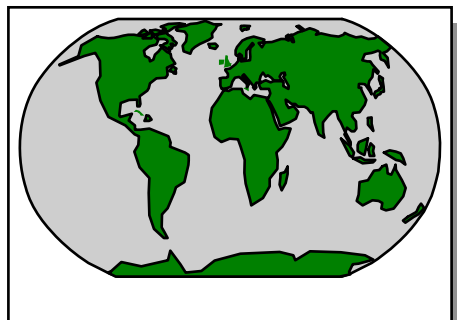
Command	Function
audit	Creates or updates the database inventory of the volumes in a library component.
cancel	Cancels a current or pending request.
clear lock	Removes all active and pending locks on transports or volumes.
define pool	Creates or modifies scratch pools.
delete pool	Deletes empty scratch pools.
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.)

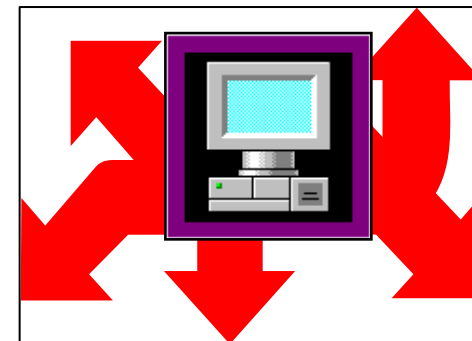


- **General Command Syntax:**
 - `command type_identifier state [options]`
- **Frequently used commands:**
 - `query`, `vary`, `enter`, `eject`
- **Utilities:**
 - `bdb.acsss` -- back up the ACSLS database
 - `kill.acsss` -- terminate ACSLS
 - `rc.acsss` -- start and recover ACSLS
 - `rdb.acsss` -- restore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

Sources and Uses of Archive Data

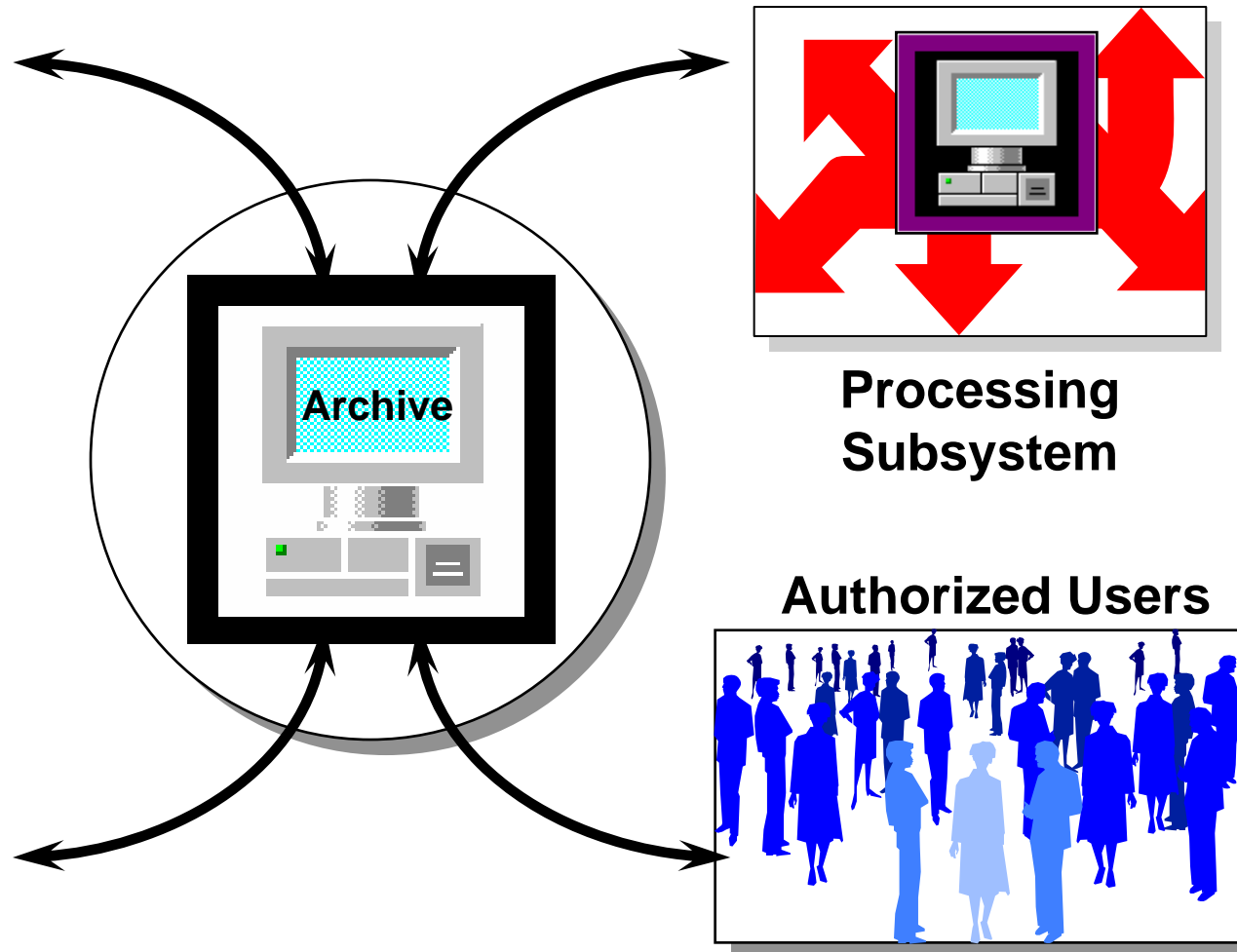
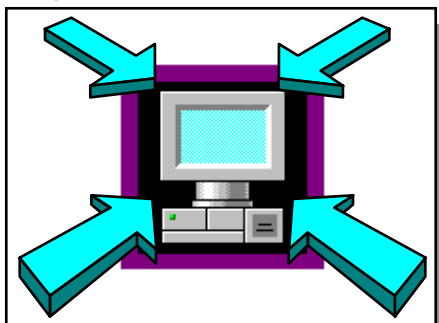


Other DAACs

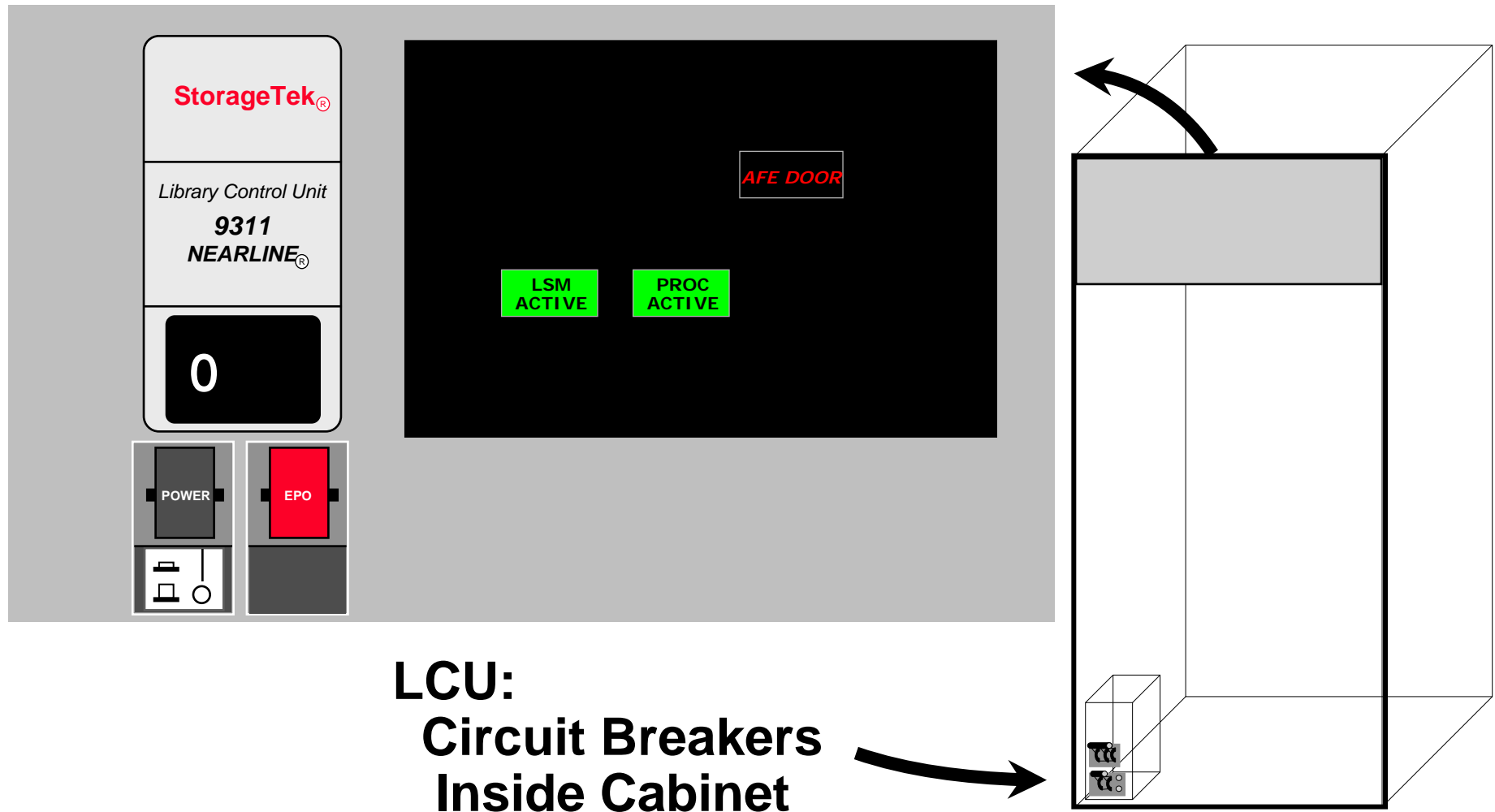


Processing Subsystem

Ingest Subsystem

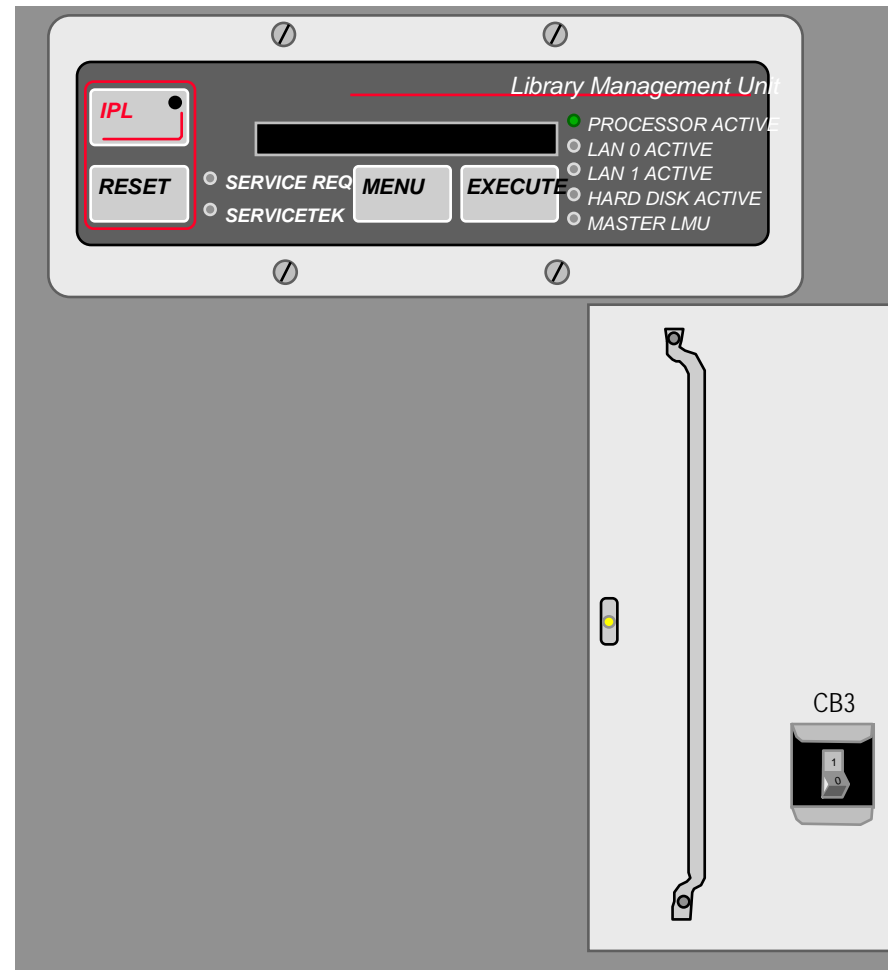
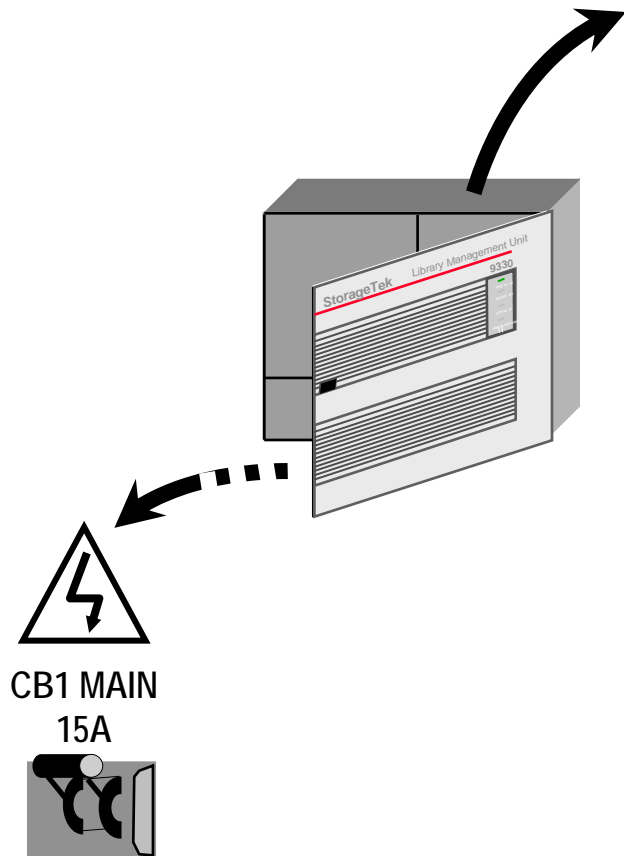


STK Controls/Displays: LCU

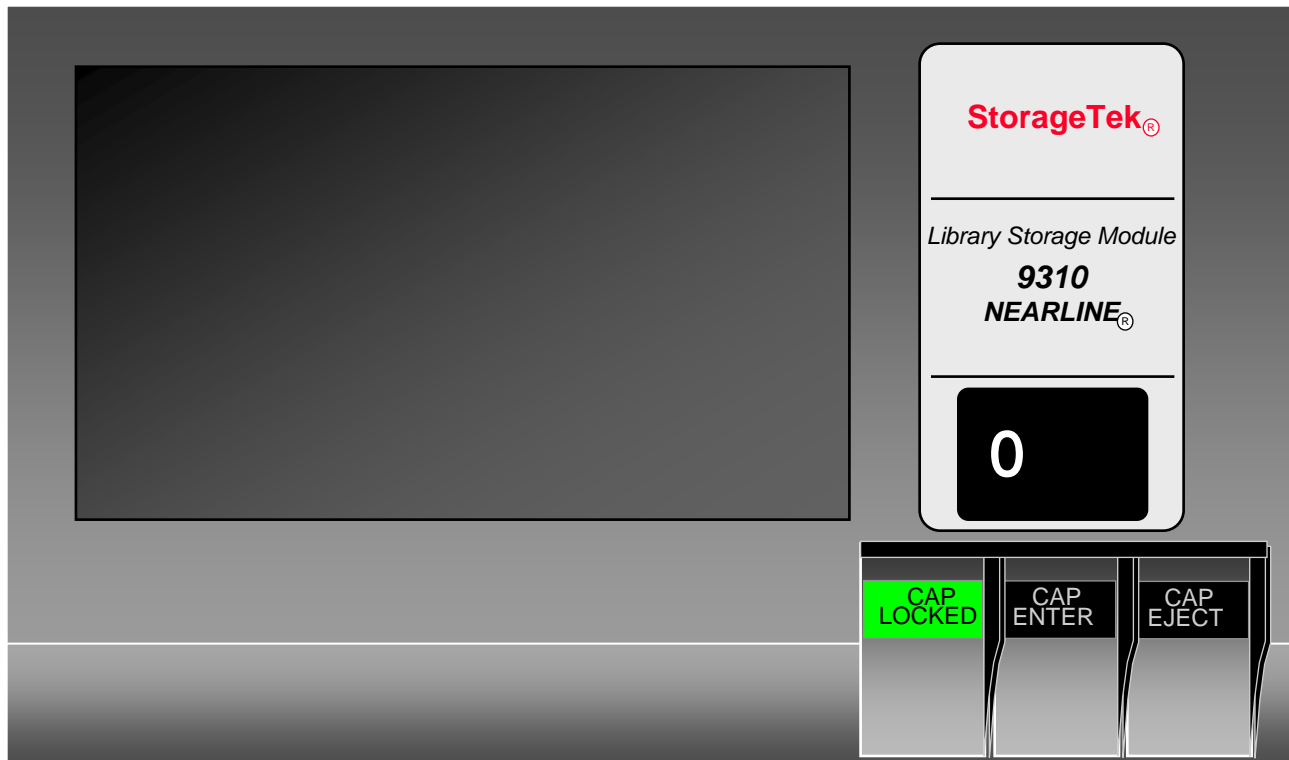


**LCU:
Circuit Breakers
Inside Cabinet**

STK Controls/Displays: LMU



STK Controls/Displays: LSM



Logging in to System Hosts

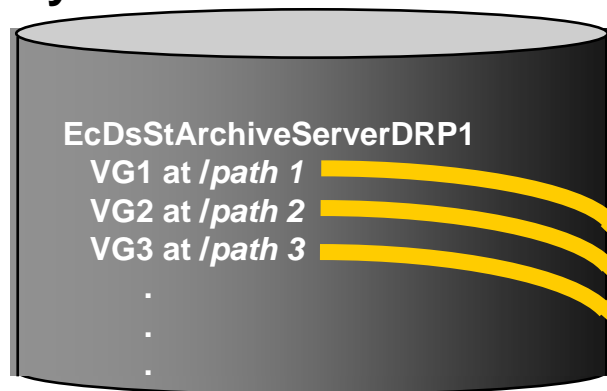


- **Logging in to system hosts is accomplished from a UNIX command line prompt**
 - It is an initial set of steps that is performed when accomplishing many other Data Distribution tasks
- **Procedure**
 - Access the command shell
 - Set the DISPLAY environmental variable
 - Log in to the specified host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

Storage Element Relationships

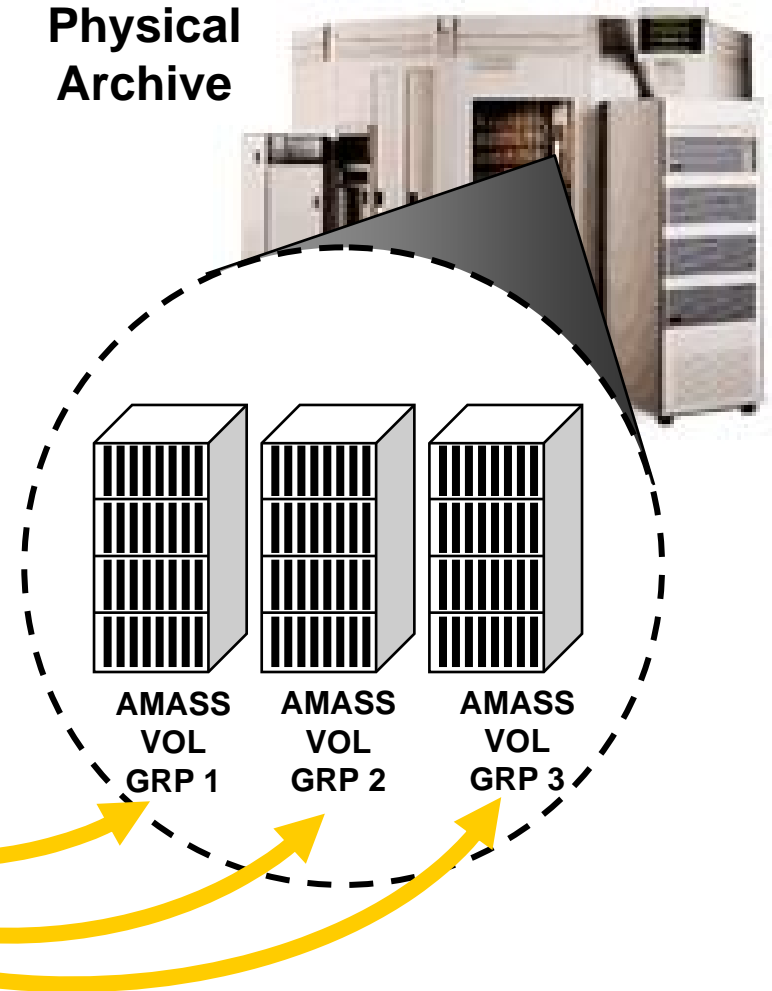


- Each physical archive (Library Storage Module) is mapped to an Archive Server application (e.g., DRP1 is served by the application EcDsStArchiveServerDRP1)
- Library may include multiple Logical Volume Groups (LVGs), each with a specified path, mapped to a volume group in the physical archive



Storage Management Database

Physical Archive



Storage Management: Storage Config. Tab



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 10:57:31 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Configuration Parameter Reporting

Server Type	# of Servers	Description	# of Re-routes
SMM	0	SMM Stacker Server	1
ARCHIVE	3	Archive Server	
CACHE MANAGER	4	Cache Management Server	
CDROM	0	CDROM Device Server	1
D3	0	D3 Device Server	1
DLT	0	DLT Stacker Server	1
FTP	4	FTP Server	
REQUEST MANAGER	1	Request Manager Server	

Times to Re-route: Apply to Server Type

Server Name	Status
EcDsStArchiveServerACM4	Up
EcDsStArchiveServerDRP3	Up
EcDsStArchiveServerWKS1	Up

Add Server Modify Server Delete Server

Operator Messages

01/11/01 10:56:58 Error purging old database entries.

Storage Management: Vol. Grp. Config. Tab



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:26:21 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Volume Group Information

Data Type Name	Current Hardware CI	Current Volume Group Path	UNIX Compression Factor	GZIP Compression Factor
MISLOBF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCAL.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODFX.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODFX.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS1X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS2X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOS3X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLOSX1.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOSX2.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOSX3.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOTST.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISQA.001	DRP3	/dss_stk3/TS3/ancb	0	0
MOD000.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD000X.001	DRP3	/dss_stk3/TS3/exp	0	0
MOD001.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD002.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD003.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD001.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD021KM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD022.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02HKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02LUT.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02QKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD03.001	DRP3	/dss_stk3/TS3/modhi	0	0

Find Next

Add... Modify Display History Display Statistics Reset

Operator Messages

01/11/01 11:21:20 Error purging old database entries.

Volume Group History

Volume Group: (ESDT Data Type.Version) MOD01.001

Volume Group History

Hardware CI History	Path History	Start Date	End Date
DRP3	/dss_stk3/TS3/mod10	11/21/00	

Close

Archive-Related Applications



- **Servers (must be running)**
 - **Science Data Server (SDSRV)**
 - **Storage Management (STMGT) Servers**
 - Request Manager Server
 - Staging Disk Server
 - Cache Manager Server
 - Archive Server
 - FTP Server
 - 9940 Tape Server
 - 8mm Tape Stacker Server
 - **Data Distribution (DDIST) Server**
- **DSS Graphical User Interfaces (GUIs)**
 - **DDIST, STMGT, SDSRV**

DSS Science Data Server GUI: Data Types Tab, with Add/Update Dialogs



The screenshot displays the 'Science Dataserver Operator GUI - [TS1]' window. The main window has a menu bar with 'File', 'Selected', 'Options', and 'Help'. Below the menu bar are two icons: 'Data Types' and 'System Requests'. The main area is titled 'Science Data Server - Data Types' and contains a table of 'Data Type Information'.

ID	Name	Version	Description
:CL.000	CL	0	
ACM1_TS1:Browse.001	Browse	1	
DRP1_TS1:ACR3L2OM.001	ACR3L2OM	1	
DRP1_TS1:AIRI2REN.001	AIRI2REN	1	
DRP1_TS1:AIRX2RET.001	AIRX2RET	1	
DRP1_TS1:AIRX2SRD.001	AIRX2SRD	1	
DRP1_TS1:AIRX2SUP.001	AIRX2SUP	1	
DRP1_TS1:AIRX2TOP.001	AIRX2TOP	1	
DRP1_TS1:AIRXADCM.001	AIRXADCM	1	
DRP1_TS1:AIRXARYL.001	AIRXARYL	1	
DRP1_TS1:AIRXATCM.001	AIRXATCM	1	
DRP1_TS1:AIRXATCS.001	AIRXATCS	1	
DRP1_TS1:AIRXATLP.001	AIRXATLP	1	
DRP1_TS1:AIRXBPAP.001	AIRXBPAP	1	

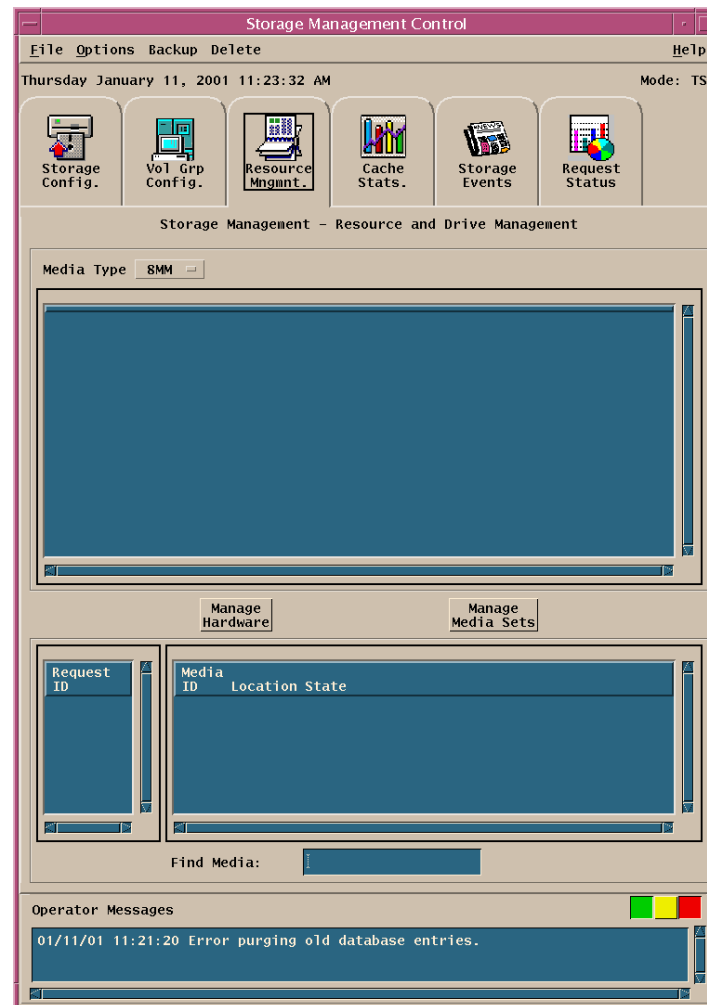
Below the table is a 'Find' search box and a row of buttons: 'View', 'Add...', 'Update...', and 'Refresh/Reconnect'. A red starburst graphic is centered over the 'Add...' and 'Update...' buttons, with two red arrows pointing from the starburst to the 'Add Data Type' and 'Update ESDT' dialog boxes. The 'Add Data Type' dialog has a 'Descriptor Filename:' field with a 'File...' button and 'OK', 'Cancel', 'Clear', and 'Help' buttons. The 'Update ESDT' dialog has a similar 'Descriptor Filename:' field with a 'File..' button and 'OK', 'Cancel', 'Clear', and 'Help' buttons.

Archive Resource Management



- **For Science Software Integration and Test (SSI&T)**
 - At the time an Earth Science Data Type (ESDT) is loaded, its characteristics are specified in Science Data Server (SDSRV) through a descriptor file identified on the SDSRV Graphical User Interface
 - ESDTs may be uniquely assigned to logical volume groups
 - Adherence to convention facilitates support of local archives by centralized resources
 - Cooperation through Operations Working Groups can facilitate consistency
 - *Note:* The logical volume group is specified as the ESDT short name with the version ID as an extension (e.g., MOD01.001)

Storage Management: Resource Mngmnt. Tab



Storage Management: Cache Stats. Tab



Storage Management Control

File Options Backup Delete Help

Friday February 09, 2001 08:56:08 AM Mode: TS2

Storage Config. VoI Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Cache: PULL RO Cache Manager-4.000000 Text

Cache Statistics

Current Utilization:	0.000482	Number of Resident Files:	126
Used Space (Blocks):	964242	Maximum File Size (Blocks):	244046
Free Space (Blocks):	1999035758	Minimum File Size (Blocks):	1
Total Space (Blocks):	2000000000	Average File Size (Blocks):	7857

Cache Information

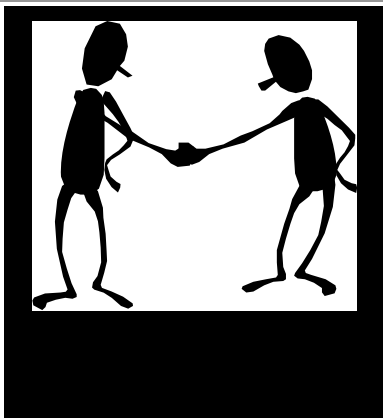
Filename	File Size	Last Accessed	Delete Flag	State
:BR:Browse.001:13800:1.BINARY	18	01/25/01	N	Expired
:LM:PGEEKE.001:1620:1.BINARY	913	02/05/01	N	
:SC:ACR3L2OM.001:13584:1.HDF	1	01/29/01	N	
:SC:ACR3L2OM.001:14170:1.HDF	1	01/26/01	N	
:SC:AM1ATTF.001:17013:1.CCSDS	15	01/29/01	N	
:SC:AMSR_L1A.001:17076:1.HDF	426	01/30/01	N	
:SC:AMSR_L1A.001:17077:1.HDF	426	01/30/01	N	
:SC:AMSR_L1A.001:17104:1.HDF	426	01/30/01	N	
:SC:AST_09T.001:9546:1.HDF-EOS	20	01/25/01	N	
:SC:DFLANCLD.001:16980:1.HDF-EOS	14413	01/26/01	N	
:SC:L7CPF.002:13835:1.ASCII	76	01/25/01	N	
:SC:L7CPF.002:16769:1.ASCII	76	01/31/01	N	
:SC:MISCALBA.001:17015:1.CCSDS	46158	01/29/01	N	
:SC:MISCALBA.001:17015:2.CCSDS	1	01/29/01	N	

Mark Delete Unmark Delete

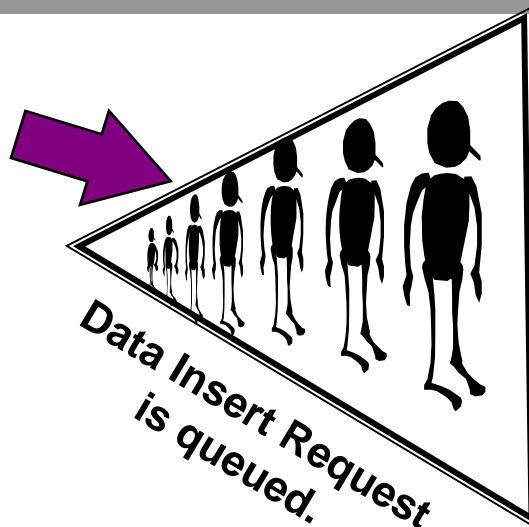
Operator Messages

02/09/01 08:55:41 Error purging old database entries.

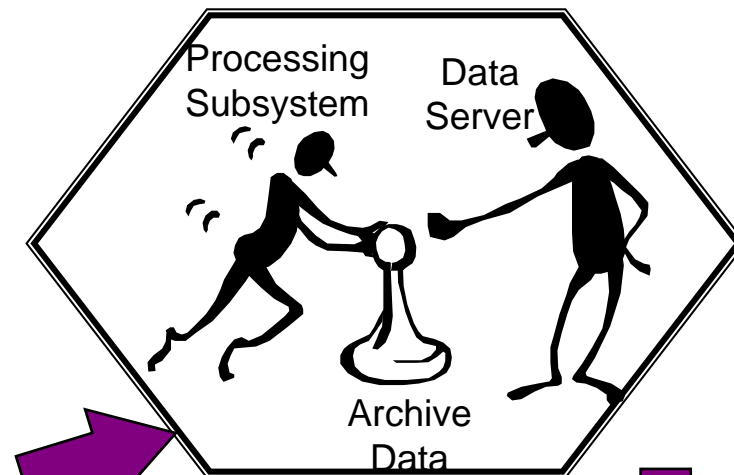
Insert Data Into the Archive



Initiate the session.

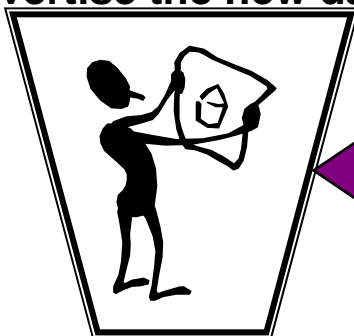


Data Insert Request is queued.

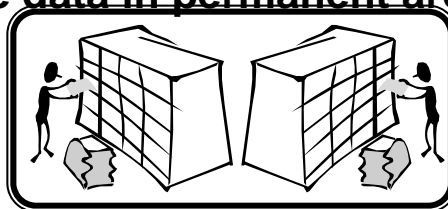


Data are Transferred

Advertise the new data!

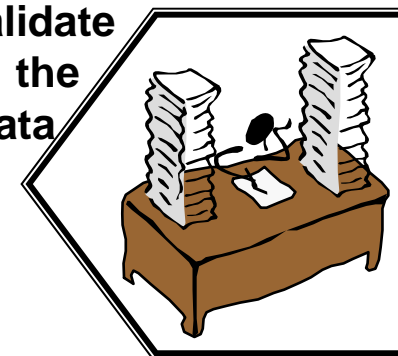


Store data in permanent archive.



Store metadata in Science Data Server.

Validate the Metadata



Storage Management: Request Status



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:03:08 AM Mode: TS3

Storage Config. VoI Grp Config. Resource Mngmnt. Cache Stats. Storage Events Request Status

Filtering

Request Status Information

Operation	Request ID	Progress	Status	Priority	When Submitted	Last Update
ArRetrieveFile		RetrieveFailed	DsESTARPathSearchExhausted	NORMAL	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsESTRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsESTRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsESTRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink		Checkpointed	DsESTRemoveManDirEntry	XPRESS	11/22/00	11/22/00
CMRemoveLink		Checkpointed	DsESTRemoveManDirEntry	XPRESS	11/30/00	11/30/00
CMRemoveLink	MODPGE01#s07200200TS3LM:PGEXE.001:3959	Checkpointed	DsESTRemoveManDirEntry	XPRESS	12/06/00	12/06/00
CMRemoveLink	MODPGE02#s20020500TS3496SC:MOD02LUT.001:	Checkpointed	DsESTRemoveManDirEntry	XPRESS	12/06/00	12/06/00
CMRemoveLink	MODPGE02#s20020500TS3SC:MOD02LUT.001:427	Checkpointed	DsESTRemoveManDirEntry	XPRESS	12/12/00	12/12/00
CMRemoveLink	MODPGE01#s07200200TS3LUnSC:MOD03LUT.001:	Checkpointed	DsESTRemoveManDirEntry	XPRESS	12/12/00	12/12/00
CMRemoveLink	MODPGE01#s07200200TS3SC:MOD03LUT.001:456	Checkpointed	DsESTRemoveManDirEntry	XPRESS	12/13/00	12/13/00
CMRemoveLink	MODPGE01#s07200200TS3ADsSC:MOD03LUT.001:	Checkpointed	DsESTRemoveManDirEntry	XPRESS	12/13/00	12/13/00

Operator Messages

01/11/01 10:56:58 Error purging old database entries.

Storage Management: Request Filtering



The screenshots illustrate the 'Filtering' capabilities within the Storage Management Control application. The interface includes a menu bar (File, Options, Backup, Delete) and a toolbar with icons for Storage Config., Vol Grp Config., Resource Mngmt., and Cache Stats.

The first screenshot shows the 'Filtering' menu open, listing categories such as Server, Operation, Processing State, and Submitter. The 'Server' list includes various server types like EcDsStArchiveServerACM4, EcDsStArchiveServerDRP3, and EcDsStFtpServerDRP3.

The second screenshot shows the 'Filtering' menu with 'Operation' selected, displaying a list of operations including ArRetrieve, ArStoreBkFile, CMCreateDir, and SDCopyInto.

The third screenshot shows the 'Filtering' menu with 'Processing State' selected, displaying a list of states including RetrievingFile, Processing, Suspended, and Completed.

The fourth screenshot shows the 'Filtering' menu with 'Submitter' selected, displaying a list of submitter names and their associated operations, such as 'ArRetrieve' and 'ArStoreBkFile'.

Data Server: Distrib'n Requests Window



Data Distribution Operator GUI – TS1

File Selected Edit View Options Help

Distrib'n Requests System Requests Tape IDs Preamble Editor Event Logging

Data Distribution – Track Activity

Data Distribution Requests Items: 12

Mod	Request ID	Requester	Esdt Type	Media	Priority	State	Status Mnemonic	Submission Time
<input type="checkbox"/>	0000000057	ECSGuest	AST_04.001	FtpPull	Normal	Cancelled	DsEstRequestCancelled	02/08/2000 19:
<input type="checkbox"/>	38194030890141	cmshared	AST_04.001	FtpPush	Normal	Cancelled	DsEstRequestCancelled	02/08/2000 19:
<input type="checkbox"/>	40162251599806	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 16:
<input type="checkbox"/>	40162251601126	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 16:
<input type="checkbox"/>	40162253100522	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 16:
<input type="checkbox"/>	40193629774881	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193630937904	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	4019363627040	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193638911613	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193641839677	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	40193644947334	cnts1	MOD00.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/10/2000 19:
<input type="checkbox"/>	44173619562305	cnts1	MOD000.001	FtpPush	Low	Cancelled	DsEstRequestCancelled	02/14/2000 17:

Find

Change Priority: Xpress Apply Refresh

Mark Shipped Cancel Suspend Resume Suspend All Resume All

Operator Messages

Distribution Filter Requests Window



Distribution Filter Requests

Request ID

Requester

All Requests

Media Type:

BMM	All None
CDROM	
D3	
DLT	
FtpPull	
FtpPush	

State:

<input checked="" type="checkbox"/> Pending	<input checked="" type="checkbox"/> Suspended
<input checked="" type="checkbox"/> Active	<input checked="" type="checkbox"/> Suspended with Errors
<input checked="" type="checkbox"/> Staging	<input checked="" type="checkbox"/> Waiting for Shipment
<input checked="" type="checkbox"/> Transferring	<input checked="" type="checkbox"/> Shipped
<input checked="" type="checkbox"/> Cancelled	<input checked="" type="checkbox"/> Failed

All None

OK Apply Cancel Help

Retrieval of Data from the Archive



- **Largely automated process in response to data distribution requests**
 - **data orders from scientists or other end users**
 - one-time orders
 - standing orders placed as subscriptions for acquiring data
 - **data requests from other DAAC sites**
 - cross-DAAC orders for end users
 - data needed as input for processing at other sites (subscriptions placed for ingest by those sites)
 - **internal requests for data needed for processing**
- **DSS Distrib'n Requests window to monitor**

Granule Deletion



- **Phases of Granule Deletion**
 - **Logical deletion [marking granules (in the SDSRV database) for deletion]**
 - **Physical deletion (removing from the SDSRV database data concerning granules marked for deletion and putting in the STMGT database data concerning granules to be deleted from the archive)**
 - **Deletion from the archive (removing from the archive the files identified for deletion in the STMGT database)**

Granule Deletion (Cont.)



- **Phase 1, Logical 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 (SDSRV database) those granules that meet the criteria
- **Phase 2, Physical Deletion**
 - Physical deletion occurs when the operations staff runs the Science Data Server Deletion Cleanup utility (EcDsDeletionCleanup.pl), which removes all inventory rows (in the SDSRV database) for granules that were flagged as "deleted," including rows referencing related information (e.g., BR, PH, and QA); the script creates entries in the DsStPendingDelete table (in the STMGT database) for granules to be deleted
- **Phase 3, Deletion from the Archive**
 - The operator uses the Archive Batch Delete utility to initiate the removal from the archive of the files listed in the DsStPendingDelete table (populated by SDSRV in Phase 2); the operator must run the utility separately on each appropriate Archive host (FSMS Server or APC Server host)

Loading/Removing Archive Media



- **STK Powderhorn: Cartridge Access Port (CAP)**
 - 21 Tapes
- **Automatic loading (recommended for most loading)**
- **Manual loading (available for initial loading or other bulk loading)**

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 STMGT 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**

Storage Management: Vol. Grp. Config. Tab Add Dialog



Storage Management Control

File Options Backup Delete Help

Thursday January 11, 2001 11:26:21 AM Mode: TS3

Storage Config. Vol Grp Config. Resource Mngmt. Cache Stats. Storage Events Request Status

Volume Group Information

Data Type Name	Current Hardware CI	Current Volume Group Path	UNIX Compression Factor	GZIP Compression Factor
MISLOBF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCAL.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOCF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODA.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODF.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLODFX.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLO51X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLO52X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLO53X.001	DRP3	/dss_stk3/TS3/exp	0	0
MISLO5Y1.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLO5Y2.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLO5Y3.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISLOTST.001	DRP3	/dss_stk3/TS3/misr10	0	0
MISQA.001	DRP3	/dss_stk3/TS3/anch	0	0
MOD000.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD000X.001	DRP3	/dss_stk3/TS3/exp	0	0
MOD001.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD002.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD003.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD01.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD021KM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD022.001	DRP3	/dss_stk3/TS3/mod10	0	0
MOD02HKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02LUT.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD02QKM.001	DRP3	/dss_stk3/TS3/modhi	0	0
MOD03.001	DRP3	/dss_stk3/TS3/modhi	0	0

Add... Modify Display History Display Statistics Reset

Operator Messages

01/11/01 11:21:20 Error purging old database entries.

Add Volume Group

Data Type.Version: []

HWC: []

Volume Group Path: []

UNIX Compression Factor (%): [0]

GZIP Compression Factor (%): [0]

Volume Group Type:

PRIMARY BACKUP OFFSITE

OK Cancel

Some AMASS Commands



- ***vollist***
 - Lists all volumes and current status
- ***dirfilelist***
 - lists files under a specified directory
- ***volfilelist***
 - lists all files on a specified volume
- **Others: See *AMASS System Administrator's Guide***

Creating a Backup for AMASS



- **AMASS tape format is proprietary, designed for speed of access**
- ***vgexport -q* command creates an ASCII file that can be used with the tapes and *vgimport* command to recover the stored data**

Replace Backup Volume (Volume 1)



- **AMASS database backup is stored in the archive on Volume 1**
- **AMASS issues warning when Backup Volume is nearly full (95%)**
- **When warning message is received, install new Backup Volume and perform a full backup**
- **If Backup Volume gets full during attempted backup, backup will fail, necessitating replacement and full backup**

Manual Backup of Archive Data



- **Necessary when a backup data tape is used and must be replaced**
- **Data restoration using a backup data tape is achieved by inserting the tape into the archive**
- **To replace the tape requires manual creation of a copy**

Restoring Archive Data



- **Copy from backup to primary (using UNIX)**
- **Reprocess lower-level data to obtain lost higher-level product**
 - Recovered granule has a new UR and a new production date and time
- **Request replacement from data provider**
 - Some data providers do not offer replacement
 - EDOS provides L0 backup for ECS; replacement data on DTF-2 tape
- **Restoring AMASS/ACSLs database**
 - For AMASS: `amassrestore`
 - For ACSLS: `rdb.acsss`

End-to-End Data Tracking System to Access EOS Data Reorder Tool



End-to-End Data Tracking System - Netscape

File Edit View Go Communicator Help

Back Forward Reload Home Search Netscape Print Security Shop

Bookmarks Location http://eds1.gsfc.nasa.gov/8080/index.html

End-to-End Data Tracking System

EDTS Mission Specific Reports

Terra	Daily	10 Day
Aqua	Daily	10 Day
ICESat	Daily	10 Day
Aura	Daily	10 Day

EDTS Data User Reports

- [EMOS FDS Daily](#)
- [GES DAAC Daily Page](#)
- [ASDC DAAC Daily Page](#)
- [NASDA/NSIDC DAAC Daily Page](#)
- [LaTIS Daily Page](#)
- [Aqua RBD Daily Page](#)
- [EDTS Data Download](#)

Related Links

Data Reorder	Terra	Aqua	Aura	ICESat
Top 5 Reorders	Terra	Aqua	Aura	(Password Req'd)
SSR Loss	Terra	Aqua	Aura	ICESat
Carryout Status	Terra	Aqua	Aura	
Whiteboard	Terra	Aqua	Aura	

- [EOS System Status](#)
- [EDOS System Webpages](#) (Password Req'd)

Documents

- [EDTS Bug Reporting](#)
- [EDTS Requirements](#)
- [EDTS Interface](#)

System Administration

- [EDTS Usage Statistics](#) (Password Req'd)
- [EDTS Process Status](#)
- [EDTS Process Logs](#)

Document Done

EOS Data Reorder Tool



Access the Data Reorder Database - Netscape

EOS Terra Data Reorder Request

- [Search Terra Data Reorder Database](#)
- [Add New Request](#)
- [Data Reorder Summary Report](#)
- [Distribution Matrix \(Open Requests\) - limited access \(EDOS Only, FOT Only \)](#)
- [EDOS Tape Status](#)

[Data Production](#) [Go to Data Production page](#)

[Top 5](#) [Go to Top 5 page](#)

Contact mas@eos.nasa.gov for changes
 Last Modified: May 3, 2002
[NASA Security Warning](#)
[NASA Privacy Statement](#)

Data Reorder New Record - Netscape

EOS Terra Data Reorder Request
Add New Request

[Data Reorder](#) [Tapes](#)

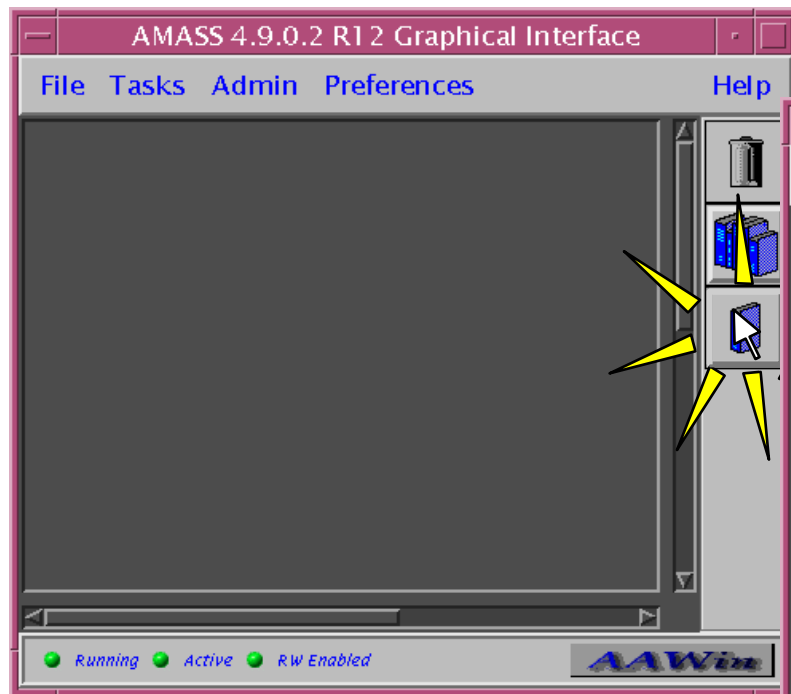
Requestor's Name*	<input type="text"/>				Requestor's Organization*	<input type="text" value="No Selection"/>				
Requested data (UTC)*	Year	DOY	Start time	Stop time	Request Reason*	Priority* (See below)				
	2003	1	0000	0200			<input type="radio"/> Missing <input type="radio"/> Partial	3		
Data type(s)* (Select all that apply)	FDS	<input type="checkbox"/> Carry-out & APID1		<input type="checkbox"/> Attitude		<input type="checkbox"/> Replacement Ephemeris				
	Low Rate	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5	<input type="checkbox"/> 6			
	MODIS	<input type="checkbox"/> 64								
	ASTER	<input type="checkbox"/> EDS	<input type="checkbox"/> 257/259	<input type="checkbox"/> 261/263	<input type="checkbox"/> 265/267	<input type="checkbox"/> 273/275	<input type="checkbox"/> 277/279	<input type="checkbox"/> 281/283		
		<input type="checkbox"/> 289/291	<input type="checkbox"/> 293/295	<input type="checkbox"/> 297/299	<input type="checkbox"/> 305-307	<input type="checkbox"/> 309-311	<input type="checkbox"/> 313-315			
	CERES	<input type="checkbox"/> 131	<input type="checkbox"/> 132	<input type="checkbox"/> 133	<input type="checkbox"/> 167	<input type="checkbox"/> 168	<input type="checkbox"/> 169			
	MOPITT	<input type="checkbox"/> 192	<input type="checkbox"/> 193	<input type="checkbox"/> 194	<input type="checkbox"/> 195	<input type="checkbox"/> 196				
		<input type="checkbox"/> 320	<input type="checkbox"/> 323	<input type="checkbox"/> 325	<input type="checkbox"/> 326	<input type="checkbox"/> 329	<input type="checkbox"/> 330	<input type="checkbox"/> 332	<input type="checkbox"/> 335	<input type="checkbox"/> 337
	MISR	<input type="checkbox"/> 338	<input type="checkbox"/> 340	<input type="checkbox"/> 343	<input type="checkbox"/> 344	<input type="checkbox"/> 347	<input type="checkbox"/> 349	<input type="checkbox"/> 350	<input type="checkbox"/> 353	<input type="checkbox"/> 354
		<input type="checkbox"/> 356	<input type="checkbox"/> 359	<input type="checkbox"/> 360	<input type="checkbox"/> 365	<input type="checkbox"/> 373	<input type="checkbox"/> 374	<input type="checkbox"/> 378	<input type="checkbox"/> 380	
Comments	<input type="text"/>									
Action Org*	<input type="radio"/> EDOS <input type="radio"/> FOT									

* Required field

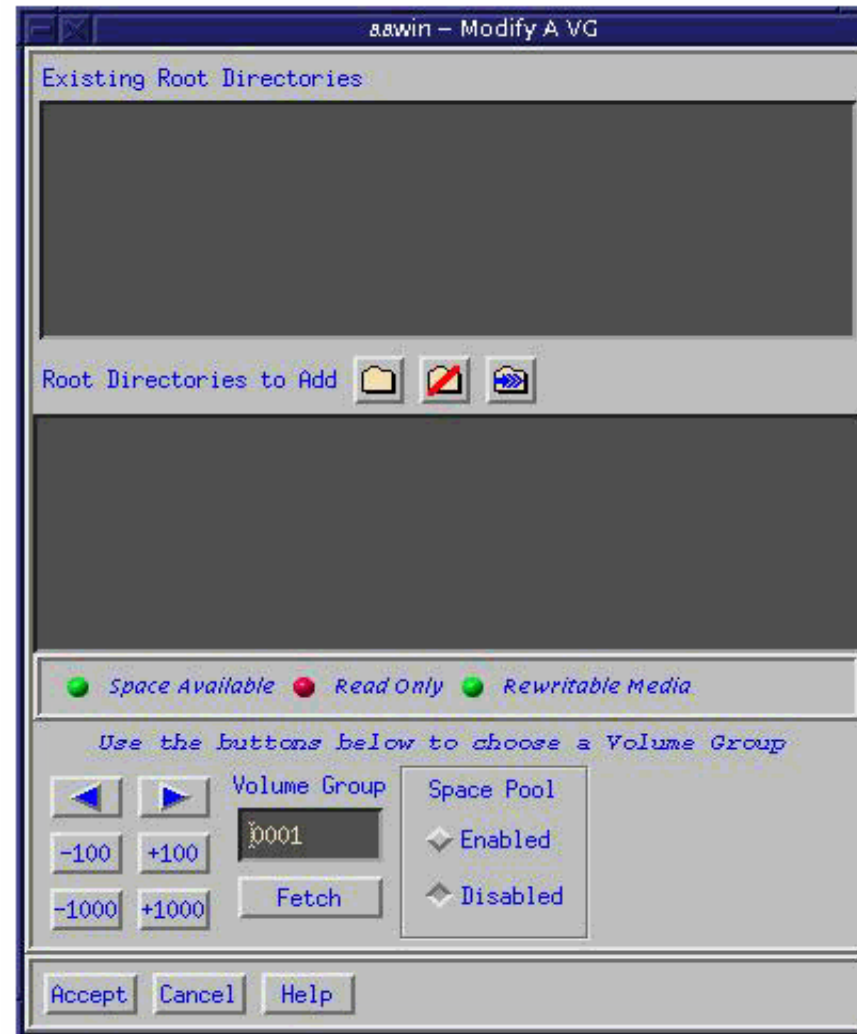
Data Reorder Priorities	
Priority 1:	Critical Data needed within 24-48 hours. This includes expedited data, calibration data, and any other data identified by the instrument team as critical path data.
Priority 2:	Important Data observation or activity (e.g., targets of opportunity)
Priority 3:	All other data needs

[Return to Home Page](#)

AMASS GUI




AMASS GUI: Modify A VG Screen



AMASS GUI: Modify A Volume Screen



aawin - Modify A Volume

Volume	65	Slot	+ NET
Volume Group	75	Library	+ 1
Online	<input checked="" type="checkbox"/>	Format Type	+ Yes
Active	<input checked="" type="checkbox"/>	Error count	+ 0
Format Request	No 	R/W status	+ R/W
Block Size	16384	Volume in use	+ True
Volume Label		Media type	+ TAPE
		Last PBN	+ 0x00000001
		Block size	+ 16384
		Total blocks	+ 1220672
		Blocks Used	+ 1
		Dead space	+ 0%

DF0059

Accept Cancel Help

Monitoring and Troubleshooting



Some Common Archive Problem Resolutions

Symptom/Problem	Response
Unable to log in to the FSMS host (e.g., x0drg01)	Check with the Operations Controller/System Administrator to ensure that the host is "up."
AMASS is not running	Have the System Administrator restart AMASS.
A volume is inactivated by AMASS	Check for AMASS errors and, unless there are many errors, use the command <code>/usr/amass/bin/volstat -a <vol_number></code> to re-activate the volume. [For detailed instructions, refer to the procedure Use the <i>amass_log</i> script to Display AMASS Errors (subsequent section of this lesson).]
A storage system robot gets out of synchrony with AMASS concerning the location of media.	Re-establish synchrony. [For detailed instructions, follow the procedure Use <i>mediamove</i> to Establish Synchrony Between <i>quedisplay</i> and <i>medialist</i> (subsequent section of this lesson).]
An Ingest or Data Processing action cannot complete because of failure to store data (reflected as failure on Ingest or Processing GUIs).	Check to ensure AMASS is on line; check for file copy errors, network problems, mount point problems. [For detailed instructions, refer to the procedure for Recovery from Failure to Store Data (subsequent section of this lesson).]

Storage Management: Storage Events Tab



The screenshot shows the 'Storage Management Control' application window. At the top, there are menu items: File, Options, Backup, and Help. Below the menu is a toolbar with icons for Storage Config., Vol Grp Config., Resource Mngmt., Cache Stats., Storage Events, and Request Status. The main area is titled 'Event Log Search Parameters' and contains the following fields:

- Date Interval: Begin (01 / 11 / 2001) and End (01 / 11 / 2001)
- Event Type: Any
- Event Level: Any
- Message: (empty text box)
- Buttons: Search, Clear Parameters

Below the search parameters, it shows 'Search Records Found: 2'. The 'Event Log' section contains a table with the following data:

Number	Date	Level	Type	Message
30105	01/11/01	SEVERE	SOFTWARE	Error in restore from Backup sources in Archive
30105	01/11/01	SEVERE	SOFTWARE	Error in Archive Retrieve using primary path, s

Below the table is a 'Page Selected' button. At the bottom, there is an 'Operator Messages' section with a message: '01/11/01 11:03:53 Old database entries were successfully purged.'

Two red arrows point from the 'Event Type' and 'Event Level' dropdowns in the search parameters to their respective expanded menu lists shown on the left and right sides of the screenshot.

Event Type Menu: Any, Device, Cache, Software, COTS, Sybase, Pulldisk, Unknown

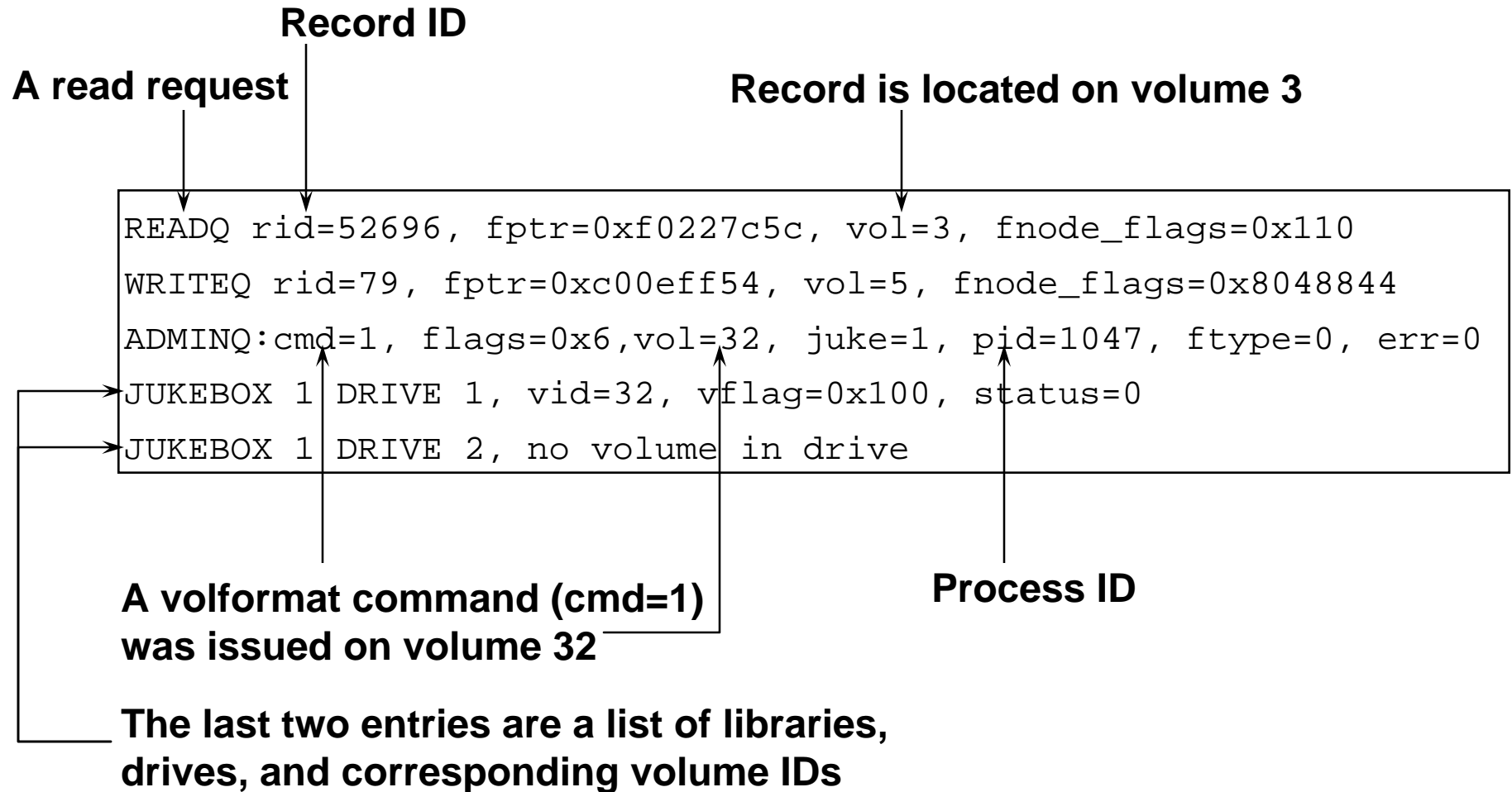
Event Level Menu: Any, Information, Warning, Error, Severe, Fatal, Unknown

AMASS Monitoring Commands, Utilities, and Scripts



- ***healthcheck*** is a command providing status on basic AMASS functions and capabilities
- ***sysperf*** is a command to display AMASS I/O activity
- ***amass_log*** is a script permitting display of AMASS messages from the system log
- ***quedisplay*** is a library utility used to view the AMASS queue and diagnose problems
- ***medialist*** shows robot's view of media and their slot locations
- ***mediamove*** can establish synchrony between ***quedisplay*** and ***medialist***
- There are other utilities and scripts described in ***AMASS System Administrator's Guide***

Sample Output from *quedisplay*



Recovery from Failure to Store or Retrieve Data



- **Successful storage depends on many functions**
 - Archiving of granules (can be compromised by network problems, mount point problems, AMASS being off line)
 - Entry of metadata in SDSRV inventory database
 - Successful staging disk creation and cache management
- **Troubleshooting**
 - Check server logs (including Request Manager server debug log)
 - Check tac log for interaction of AMASS and ACSLS
 - Use amass_log script to display errors
 - Corrective action from *AMASS System Administrator's Guide*
 - Resume action

Checking Server Log Files



- ***.ALOG**
- ***Debug.log**
 - **Get parameters from Registry**
 - **Load resource catalogs**
 - **Pre-cache database connectivity errors**
 - **Get server configuration parameters**
 - **Spawn receptionist thread and register server in database**
 - **Spawn service threads**
 - **Process Restart Notification for server restart**
 - **Check queue for requests (“Waiting for an event”)**
 - **Communication between calling and called server**

Checking Request Manager Server Debug Log



- **Request Manager handles requests from outside of Storage Management**
 - Requests for STMGT processing are checkpointed (registered in the database)
 - “Trivial” requests (serviceable through SQL) are not checkpointed
- **Manages concurrent activities through threads**
 - Manager thread (assigns requests to service threads)
 - Service thread (services requests, logs progress)
 - Receptionist thread (registers server as “up,” monitors socket for connections from other servers)
 - Others (Inbound RPC thread, Housekeeper thread)
- **Transactions among threads recorded in Debug Log**

Checking tac Log



- **tac log records interactions between AMASS and ACSLS**
- **New log each day**
 - Current log: `tac_00`
 - Prior logs: `tac_00:date:time`
- **Log identifies AMASS commands to ACSLS concerning tape operations; can provide useful information concerning failures related to problems in these transactions**
- **Communication failure may signal a need to check for synchrony between AMASS and ACSLS (*quedisplay* vs. *medialist*)**

Handling Data Insertion Failure



- **Check Logs (and run EcCsldPingServers)**
 - **EcDsScienceDataServerDebug.log**
 - **EcDsStArchiveServerDebug.log**
 - **EcDsStStagingDiskServerDebug.log**
 - **EcDsStCacheManagerServerDebug.log**
 - **EcDsStRequestManagerServerDebug.log**
 - **EcSbSubServerDebug.log**
- **Check Archive Script**
- **Look in directory *dss_stk<#>/<MODE>/datatype* for file**
- **Check Mount Points**
- **Check Staging Disk**
- **Check Archive Volume Group Set-up**

Handling Data Acquire Failure



- **Check for Request on Science Data Server GUI**
- **Check Logs (and run EcCsldPingServers)**
 - EcDsScienceDataServer.ALOG
 - EcDsScienceDataServerDebug.log
 - EcDsStArchiveServerDebug.log
 - EcDsStRequestManagerServerDebug.log
- **Check arrival in DDIST cache on Distribution Server**
 - /usr/ecs/<MODE>/CUSTOM/drpl/<archivehost>/data/staging/cache
- **Check More Logs**
 - EcDsStStagingDiskServerDebug.log
 - EcDsStCacheManagerServerDebug.log
- **Check Space in Staging Area on Distribution Server with command *df -k* .**
 - /usr/ecs/<MODE>/CUSTOM/drpl/<archivehost>/data

Checksum Verification



- **The checksum verification utility (CVU) verifies that the data on a tape is not corrupted**
 - **It operates off a database that contains a list of tape volumes requiring verification**
 - **The database is populated by a script that is run once a day to identify tape volumes that were closed out that day**
 - **Each entry in the database contains the following types of data:**
 - **Silo ID**
 - **Tape volume ID**
 - **Date/time the volume was closed out**
 - **Status**
 - **Date/time tape volume verification was started**
 - **Date/time tape volume verification was completed**

Checksum Verification (Cont.)



- **The checksum verification utility (CVU) operates off a database that contains a list of tape volumes requiring verification**
 - **The status is one of the following values:**
 - **Requires Verification**
 - **Verification in Progress**
 - **Verification Successful**
 - **Verification Failed**
 - **Multiple CVUs can operate concurrently against the database (normal range is one to five)**

Checksum Verification (Cont.)



- **The CVU is comprised of two executable components**
 - **When started, the first CVU component searches the database for the matching silo ID, then finds the tape volume with the earliest closeout time that is in the Requires Verification state**
 - **Then it passes the silo ID and tape ID to the second executable CVU component**
 - **The second CVU component accepts the silo ID and tape volume ID as input and verifies the checksum of every file on the tape**
 - **It uses AMASS file system commands and the AMASS API to perform its functions**
 - **The CVU currently supports the following three types of checksumming:**
 - **CKSUM**
 - **ECS**
 - **MD5**

Checksum Verification (Cont.)



- **Invoke the Checksum Verification Utility (CVU): Procedure**
 - Log in at the machine where the Checksum Verification Utility (CVU) is installed (e.g., e0drg11, g0drg01, l0drg01, or n0drg01)
 - Change to the directory for starting the CVU (e.g., /usr/ecs/<MODE>/CUSTOM/utilities)
 - Run the CVU (`EcDsStCheckVolumeFiles <MODE> <Silo ID> <Volume ID>`)

Checksum De-activation (Default)



- **System design incorporates calculation of checksum on granule insertion**
 - Supports detection of data corruption
 - Comparison of original checksum with checksum calculated on data retrieval from the archive
 - Default configuration deactivates calculation to improve system throughput; set by highlighting Archive Server on Storage Config. tab of Storage Management GUI and clicking “Modify Server” button
 - Compromises detection of data corruption
 - Partial alleviation by comparison of checksums calculated on sequential data retrievals

A screenshot of the "Archive Server Configuration" dialog box. The title bar is purple and contains the text "Archive Server Configuration". Below the title bar, there are two input fields: "Server Name: EcDsStArchiveServer" with a dropdown menu showing "DRP3", and "RPC Tag: ARCD" with a dropdown menu showing "ARCD". The main area of the dialog is light beige and contains several configuration options:

- "File I/O Block Size (bytes):" with a text box containing "4194304".
- "Retries:" with a text box containing "1" and up/down arrow buttons.
- "Sleeptime (seconds):" with a text box containing "10" and up/down arrow buttons.
- A table of thread configurations:

Service Threads:	10	Allocate by Priority
Read Threads:	10	Allocate by Priority
Write Threads:	10	Allocate by Priority
- Two checkboxes for "Enable Checksumming":
 - "On Store:" with a "No" button.
 - "On Retrieve:" with a "No" button.

At the bottom of the dialog are "OK" and "Cancel" buttons.

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**
 - **Enabling/Disabling Data Compression**
 - **Managing Compression Algorithms**
 - **Managing Cloud Cover Information**
 - **Checking the Status of Batch Inserts**
 - **Checking the Data Pool Insert Queue**

Data Pool Management (Cont.)



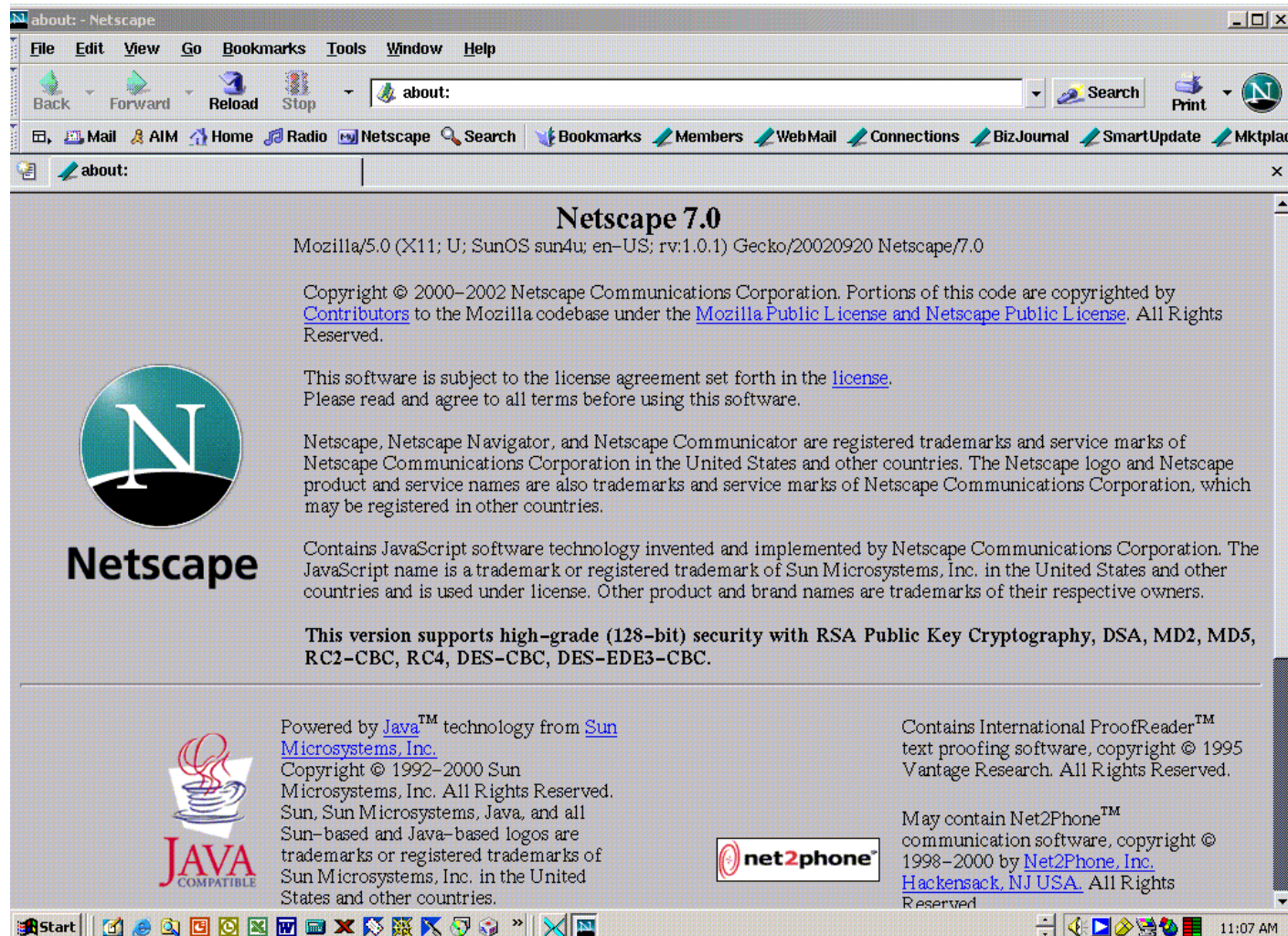
- **Features of the Data Pool Maintenance GUI (Cont.)**
 - **The DPM GUI permits an operator to perform tasks in the following general areas (Cont.):**
 - **Managing Data Pool Configuration Parameters and Data Pool Tuning**
 - **Managing Data Pool Collection Groups**
 - **Managing Data Pool Collections within Collection Groups**
 - **Managing Themes**

Data Pool Management (Cont.)



- **Features of the Data Pool Maintenance GUI (Cont.)**
 - Both the DPM GUI and the Spatial Subscription Server GUI are web applications, accessed through the Netscape web browser
 - For Synergy IV, the DPM GUI and the Spatial Subscription Server GUI are certified for use with Netscape 7 (and higher) browsers
 - It is strongly recommended that Netscape 7-compatible browsers only be used when accessing the GUIs
 - The GUIs do not work properly with Netscape 4.78 or earlier versions

Netscape Web Browser



Data Pool Management (Cont.)




- **Features of the Data Pool Maintenance GUI (Cont.)**
 - **New operator GUI security standards require the following two levels of permissions for the DPM GUI and 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**

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 GUI -- TS2 MODE -- Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/DataPool.html

Data Pool Maintenance TS2

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Screen Refresh Rate (in Secs) Last Screen Refresh on Sat Apr 9 15:52:50 EDT 2005
 Active Insert Processes rows

Summary of Data Pool File System (s)			
File System Label	Free Space Flag	Availability	Min Freed Space in MB
DEFAULT	State : Y Last changed:	State : Y Last changed: Feb 21 2005 4:51PM	10
FS1	State : Y Last changed:	State : Y Last changed:	100
FS2	State : Y Last changed:	State : Y Last changed:	100
FS3	State : Y Last changed:	State : Y Last changed:	100

Summary of Active Processes	
Maximum allowed processes	50
Maximum allowed processes from AMASS cache	10
Maximum allowed processes from AMASS tape	20
Total number of active insert processes running	0
Number of active insert processes using AMASS cache	0
Number of active insert processes using AMASS tape	0

List of Active Insert Processes (Rows 0)

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

Document: Done (3.063 secs)

DPM GUI: File System Information Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

File Edit View Go Bookmarks Tools Window Help

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File System Information				
File System Label	Absolute Path	Free Space Flag	Availability	Min Freed Space (in Megabytes)
DEFAULT	/datapool/TS2/user/FS1/	State : Y Last changed:	State : Y Last changed: Feb 21 2005 4:51PM	10
FS1	/datapool/TS2/user/FS1/	State : Y Last changed:	State : Y Last changed:	100
FS2	/datapool/TS2/user/FS2/	State : Y Last changed:	State : Y Last changed:	100
FS3	/datapool/TS2/user/FS3/	State : Y Last changed:	State : Y Last changed:	100

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

Document: Done (1.863 secs)

DPM GUI: Add New File System Page




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Add New File System

Label	<input type="text"/>
Absolute Path	<input type="text" value="/datapool/TS2/user"/>
Free Space Flag	<input type="text" value="ON"/>
Availability	<input type="text" value="YES"/>
Min Freed Space (in Megabytes)	<input type="text" value=""/> MB
Return to previous page	<input type="button" value="Apply Change"/>

Document: Done (1.77 secs)

DPM GUI: Modify File System Information Page



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Modify File System Information

File System Label	Absolute Path	Free Space Flag	Availability	Min Freed Space (in Megabytes)	Click on box to modify
DEFAULT	<input type="text" value="/datapool/TS2/user/FS1"/>	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input type="text" value="10"/>	┌
FS1	<input type="text" value="/datapool/TS2/user/FS1"/>	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input type="text" value="100"/>	┌
FS2	<input type="text" value="/datapool/TS2/user/FS2"/>	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input type="text" value="100"/>	┌
FS3	<input type="text" value="/datapool/TS2/user/FS3"/>	<input checked="" type="radio"/> ON <input type="radio"/> OFF	<input checked="" type="radio"/> YES <input type="radio"/> NO	<input type="text" value="100"/>	┌

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Document: Done (2.018 secs)

DPM GUI: Compression Algorithms Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

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Compression Label	File Extension	Compression Command	Decompression Command
HDF		/tools/bin/hdf %infile	
HDF1	Z	/home/rgauthie/compression/hdfcompress %infile	
comp2	.gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile
comp4	.gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile
gzip2	.gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile
idey1	.idey	/usr/bin/gzip -1 %infile	/usr/bin/gzip -1 %infile
idey2	.idey2	/usr/bin/gzip -1 %infile	
mytest	.gz	/bin/tar -cvf /tmp/file1 %infile	
qzipquick	.gz	/tools/bin/gzip -1 %infile	
testing	.gz	/usr/bin/gzip -1 %infile	

[Add Compression Algorithm](#)
[Modify Compression Algorithm](#)
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Document: Done (1.635 secs)

DPM GUI: Modify Compression Algorithm Page



Data Pool Maintenance GUI -- TS2 MODE - Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCompAlgorithm.pl?collAction=2

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Modify Compression Algorithm

Compression Label	File Extension (optional)	Compression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gzip -1 %infile)</i>	Decompression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gunzip -1 %infile) (optional)</i>	Check Box to Modify
HDF		/tools/bin/hdf %infile		<input type="checkbox"/>
HDF1	.Z	/home/rgauthie/compression/hdfcompress %infile		<input type="checkbox"/>
comp2	.gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile	<input type="checkbox"/>
comp4	.gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile	<input type="checkbox"/>
gzip2	.gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile	<input type="checkbox"/>
idey1	.idey	/usr/bin/gzip -1 %infile	/usr/bin/gzip -1 %infile	<input type="checkbox"/>
idey2	.idey2	/usr/bin/gzip -1 %infile		<input type="checkbox"/>
mytest	.gz	/bin/tar -cvf /tmp/file1 %infile		<input type="checkbox"/>
gzipquick	.gz	/tools/bin/gzip -1 %infile		<input type="checkbox"/>
testing	.gz	/usr/bin/gzip -1 %infile		<input type="checkbox"/>

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WARNING: Modifying a compression algorithm may prevent the future decompression of a compressed granule.

Document: Done (2.431 secs)


DPM GUI: Add Compression Algorithm Page




Data Pool Maintenance GUI -- TS2 MODE -- Netscape

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Add Compression Algorithm

Compression Label	File Extension (optional)	Compression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gzip -1 %infile)</i>	Decompression Command (include full path and parameters) <i>Note: use %infile to indicate filename (e.g. /usr/bin/gunzip %infile) (optional)</i>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

[Return to previous page](#) Add Algorithm

Document: Done (1.594 secs)

DPM GUI: Deactivate Compression Algorithm Page



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Deactivate Compression Algorithm

Compression Label	File Extension	Compression Command	Decompression Command	Check Box to Deactivate
HDF		/tools/bin/hdf %infile		<input type="checkbox"/>
HDF1	Z	/home/rgauthie/compression/hdf/compress %infile		<input type="checkbox"/>
comp2	gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile	<input type="checkbox"/>
comp4	gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile	<input type="checkbox"/>
gzip2	gz	/tools/bin/gzip -1 %infile	/bin/gunzip %infile	<input type="checkbox"/>
idey1	idey	/usr/bin/gzip -1 %infile	/usr/bin/gzip -1 %infile	<input type="checkbox"/>
idey2	idey2	/usr/bin/gzip -1 %infile		<input type="checkbox"/>
mytest	gz	/bin/tar -cvf /tmp/file1 %infile		<input type="checkbox"/>
qzipquick	gz	/tools/bin/gzip -1 %infile		<input type="checkbox"/>
testing	gz	/usr/bin/gzip -1 %infile		<input type="checkbox"/>

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**Note: Deactivating a compression algorithm will remove the algorithm from the list and will also disassociate it from all collections.
 (any granules compressed with the algorithm, will still be able to be decompressed.)**

Document: Done (1.536 secs)



DPM GUI: Cloud Cover Information Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

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Cloud Cover Information

Source Type	Source Name	Source Description	Check box to delete
Core Metadata	QAPercentCloudCover	wei's test for coremetadata	<input type="checkbox"/>
PSA	QAPERCENTNOTPRODUCEDCLOUD	wei's test for cloudcover PSA	<input type="checkbox"/>

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

Document: Done (2.019 secs)



DPM GUI: Add New Cloud Cover Information Page



Data Pool Maintenance GUI -- TS2 MODE - Netscape

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Add New Cloud Cover Information

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

Document: Done (1.267 secs)



DPM GUI: Modify Source Description Page



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Modify Source Description

Source Type	Source Name	Source Description	Click on box to modify
Core Metadata	QAPercentCloudCover	<input type="text" value="wei's test for coremetadata"/>	<input type="checkbox"/>
PSA	QAPERCENTNOTPRODUCEDCLOUD	<input type="text" value="wei's test for cloudcover PSA"/>	<input type="checkbox"/>

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Document: Done (1.065 secs)

DPM GUI: Batch Summary Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmBatchSummary.pl

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Batch Summary

Screen Refresh Rate (in Minutes) Last Screen Refresh on: Sat Apr 9 16:24:54 EDT 2005

Batch Label	New	Completed	Failed	Retry	Canceled
shen	0	0	1	0	0
ast_07_dbid_ts2	0	0	47	0	0
MOD09A1TS2.out79	0	0	45	0	0
MOD13Q1TS2.out79	0	0	4	0	0
WmsBulkThemeA.ou	0	0	5	0	0
criteria10_test	0	0	9	0	0

Document: Done (6.069 secs)

DPM GUI: List Insert Queue Page



Data Pool Maintenance GUI in mode TS2 – Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmInsertQueue.pl

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File System: ALL Batch Label: Ignore Status: NEW/RETRY Apply Filter

Inserts Left to Process on Sat Apr 9 16:22:18 EDT 2005

0

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

Click on the NONECS link in the Data.Source column to view the XML file associated with this insert

DataSource	BatchLabel	Dispatch Priority	RequestID	SubID	ECSID	Collection	Version	Science Granules and/or Metadata	Enqueue Time	Retries	Status	Click on Box to Cancel
Continue												

Apply Change

Document: Done (3.986 secs)

DPM GUI: .XML File Path and Content



The left screenshot shows the browser's address bar with the URL: `http://p2dps01.pvc.ecs.nasa.gov:22111/cgi-bin/EcDlDpmInsertQueue.pl`. The main content area displays the path: `@home3/kingsmh/vs_rear_data/SEAWIFS/SEAWIFS_retrieve_monthly_2003-04-04_00_00_00.2.xml`. A mouse cursor is pointing to the text `Return to previous page`.

The right screenshot shows the XML content of the file. The XML structure is as follows:

```
<?xml version="1.0" encoding="UTF-8"?>
<GranuleMetadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="NonEosGranuleMetadata.xsd">
  <SchemaVersion>1.0</SchemaVersion>
  <DataCenterID>0SPC</DataCenterID>
  <GranuleMetadata>
    <CollectionMetadata>
      <ShortName>SEAWIFS</ShortName>
      <VersionID>2</VersionID>
    </CollectionMetadata>
    <DataFilesContainer>
      <File type="Science">SEAWIFS_2003-04-04_00_00_00.2.dat</File>
    </DataFilesContainer>
    <DataGranule>
      <SizeMB>0.000095</SizeMB>
      <LocalGranuleID>SEAWIFS_2003-04-04_00_00_00.2.dat</LocalGranuleID>
      <DayNightFlag>Both</DayNightFlag>
      <ProductionDateTime>2003-05-04 23:59:59.0</ProductionDateTime>
    </DataGranule>
    <RangeDateTime>
      <RangeEndingTime>23:59:59.000000</RangeEndingTime>
      <RangeEndingDate>2003-05-04 00:00:00.0</RangeEndingDate>
      <RangeBeginningTime>00:00:00.000000</RangeBeginningTime>
      <RangeBeginningDate>2003-04-04 00:00:00.0</RangeBeginningDate>
    </RangeDateTime>
    <SpatialDomainContainer>
      <HorizontalSpatialDomainContainer>
        <BoundingRectangle>
```

DPM GUI: List of Configuration Parameters Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmConfigParms.pl

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List of Configuration Parameters

Parameter Name	Parameter Value	Click on Box to Modify Parm
ActionQueueCleanupFrequency	600 Frequency in seconds when the action queue is checked for completed actions and those older than the configured retention are removed.	<input type="text"/>
BatchSummaryAutoRefresh	<input type="checkbox"/> Auto Refresh Rate for Batch Summary Screen	<input type="text"/>
CompressOnInsert	<input type="checkbox"/> System Level Compression On Insert	<input type="text"/>
DefaultRetentionPeriod	1 The number of days is configured for the default retention period with all Data Pool Insert actions.	<input type="text"/>
DefaultRetentionPriority	7 The default retention priority is configured for the Data Pool Insert action. The value should be between 1 and 255.	<input type="text"/>
DeleteCompletedActionsAfter	30 The time in minutes that operators let completed actions stay in the insert action queue before making them eligible for removal.	<input type="text"/>
DisplayAIPChunkSize	4 Number of rows return per chunk for the AIP list	<input type="text"/>
HEGCleanupAge	10 HEG Cleanup Age in days	<input type="text"/>
IdleSleep	5 The number of seconds to sleep when there is nothing to do.	<input type="text"/>
InCacheTimeLimit	20 Max time in minutes operators are willing to wait for a DPIU process to complete whose files are in cache	<input type="text"/>
InsertRetryWait	30 The number of seconds to wait before a insert that failed retriably should be resubmitted.	<input type="text"/>
MAX_READ_DRIVES_p0acg05	200 Max number of simultaneous tape drives in used for the archive p0acg05	<input type="text"/>

Document: Done (2.389 secs)

DPM GUI: Aging Parameters Page



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List of Aging Parameters

ECS Priority	Starting Priority	Aging Step	Max Priority	Click on Box to Modify
LOW	60	0	60	
NORMAL	150	0	150	
HIGH	220	0	220	
VHIGH	235	0	235	
XPRESS	255	0	255	

Document: Done (1.748 secs)

DPM GUI: Collection Groups Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

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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/AMSUMHS collections/granules from the Aqua mission
ECS	AMSA	AMSA	AMSR-E collections/granules from the Aqua mission
ECS	AMSR_L1A	AMSR_L1A	AMSR/ADEOS-II L1A Raw Observation Counts
ECS	ASTT	ASTT	ASTER collections/granules from the Terra mission
ECS	ASTTER	ASTTER	testing for remapping you can remove it
ECS	BRWS	BRWS	Browse collections/granules
ECS	C&DD	C&DD	dddd
ECS	DASP	DASP	Data Assimilation System Products
ECS	GLAS	GLAS	GLAS/CESat L1B Global Waveform-based Range Corrections Data
ECS	LSR7	LSR7	All collections/granules from the Landsat 7 mission
ECS	MAPPINGASTER	AST_L1BT	testing for regression GroupId up to 12 characters
ECS	MAPPINGGLA05	MAPPINGGLA05	GLAS/CESat L1B Global Waveform-based Range Corrections Data
ECS	MAPPING_AMSR	MAPPING_AMSR	Testing for Mapping AMSR-L1A
ECS	MAPPI_AST_08	MAPPI_AST_08	ASTER Level 2 Surface Temperature Product
ECS	MAP_MISCALBA	MAP_MISCALBA	MISR Level 0 CCD Calibration BA Camera

Document: Done (3.522 secs)

DPM GUI: Collection Group Detail Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCollections.pl?GroupID=MOOT

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Data Source: ECS Group ID: MOOT Display Name: MOOT Description: MODIS Oceans collections/granules from the Terra mission

File System: ALL

List Of Collections												
Collection (Click for Detail Information)	Version	Compression Command Label	Science Granules and/or Metadata	Data Pool Insertion	HEG Processing	Export UrIs to ECHO	Quality Summary Url	Spatial Search Type	Global Coverage	Day/Night Coverage	24 Hour Coverage	Cloud Coverage
MOD07_L2	001	NONE	science and metadata	valid for Data Pool	Enabled	No		Rectangle	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

Document: Done (2.536 secs)

DPM GUI: ECS Collection Detail Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

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Data Source:ECS **Group ID:**MOOT **Display Name:**MOOT **Description:**MODIS Oceans collections/granules from the Terra mission

Detail Information	
Collection	MOD07_L2
Version	1
Description	Level 2 Daily global Total Ozone Burden, Atmospheric Stability, Temperature and Moisture Profiles at 20 vertical levels for temperature and 15 levels for moisture, and Atmospheric Water Vapor at 5x5 1-km resolution when at least 9 FOVs are cloud free.
File System	FS1
Compression Command Label	NONE
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Inserts
HEG Processing	Enabled
Export Urls to ECHO	No
Quality Summary Url	
Spatial Search Type	Rectangle
Global Coverage	No
Day/Night Coverage	Yes
24Hour Coverage	No
Cloud Cover Type	
Cloud Cover Source	
Cloud Cover Description	

[Modify Collection](#)
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DPM GUI: Modify Collection Page



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Data Pool Maintenance

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Data Source: ECS Group ID: MOOT Display Name: MOOT Description: MODIS Oceans collections/granules from the Terra mission

Modify Collection

Collection	MOD07_L2
Version	1
Description	Level 2 Daily global Total Ozone Burden, Atmospheric Stability, Temperature and Moisture Profiles at 20 vertical levels for temperature and 15 levels for moisture, and Atmospheric Water Vapor at 5x5 1-km resolution when at least 9 FOVs are cloud free.
File System	FS1
Compression Command Label	NONE
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Valid for Data Pool Insert
HEG Processing	Enabled
Export Urls to ECHO	No
Quality Summary Url	
Spatial Search Type	Rectangle
Global Coverage	No
Day/Night Coverage	Yes
24 Hour Coverage	No
Cloud Cover Type & Source	NONE View Details

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Document: Done (6.033 secs)

DPM GUI: Collections Not in Data Pool Page



Data Pool Maintenance GUI -- TS2 MODE - Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDidpManageCollections.pl?collAction=4&GroupId=MOOT

Data Pool Maintenance

TS2

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Data Source:ECS **Group ID:**MOOT **Display Name:**MOOT **Description:**MODIS Oceans collections/granules from the Terra mission

Collections Not In Data Pool

Collection (Click on collection to add)	Version	Description
AE_SDSno	001	AMSR-E/Aqua level 3 5-day products are of global snow water equivalent on EASE-Grids.
AE_Land	001	AMSR-E/Aqua global swath surface soil moisture and ancillary parameters including surface type, vegetation water content, surface temp., and QC parms are generated from level 2A AMSR-E Tb's spatially resampled to a nominal 25-km equal area earth grid.
AE_Land3	001	AMSR-E/Aqua level 3 global daily surface soil moisture with vegetation water content, surface temp., & Tb's are generated on a nominal 25-km equal area earth grid by time-compositing the level 2B parameters separately for ascending and descending passes.
AE_Ocean	001	AMSR-E/Aqua global swath ocean wind speed at 38 and 21 km res., water vapor over ocean at 21 km res., cloud liquid water at 12 km res., and sea surface temperature at 56 and 38 km res. are generated using the Wentz Algorithm and level 2A product.
AE_Rain	001	AMSR-E/Aqua global swath rain rate and rain type products are generated using the level 2A spatially resampled Tb's as input. Over ocean the Goddard Profiling Algorithm produces rain rates and types, over land the Ferraro Algorithm is used.
AE_SI12	001	AMSR-E/Aqua level 3 products at 12.5 km are of sea ice concentration, snow depth over ice, & 18 - 89.0 GHz Tb's on polar stereo grids. The sea ice con and Tb's daily asc. & desc. averages; snow depth over ice is a 5-day average.
AIRBOSCI	077	AIRS Science Data - 90 scene footprint packets per scan cycle (APID 404)
AIRK2RET	002	AIRS/Aqua FINAL AIRS Level 2 Physical Retrieval Products1 Calibrated and Geolocated1 for each AMSU-A footprint
AMIATTNF	001	This collection consists of AM-1 Platform Attitude Data that has been pre-processed by ECS to an internal standard supported by the ECS SDP Toolkit; the attitude data source is FDD analysis.
AMIEPHF	001	Repaired Ephemeris Data for EOS AM-1 ingested from Flight Dynamics Facility (FDD)
AMIEPHH0	001	This collection consists of AM-1 Platform Ephemeris Data that has been pre-processed by ECS to HDF format; the ephemeris data source is AM-1 measurements.
AMIEPHHF	001	This collection consists of AM-1 Platform Ephemeris Data that has been pre-processed by ECS to HDF format; the ephemeris data source is FDD analysis.

Document: Done (6.417 secs)

DPM GUI: Add New [ECS] Collection Page



Data Pool Maintenance GUI -- DEV06 MODE - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop http://00dps01.hitc.com:22161/cgi-bin/EcDidDpmManageCollections.pl?collAction=1&Collecti Search Print

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

Data Source:ECS **Group ID:**MOLT **Display Name:**MOLT **Description:**MODIS Land collections/granules from the Terra mission

Add New Collection

Collection	AIRXACRV
Version	1
Description	AIRS/Aqua calibration conversion data numbers ranges. The starting and ending data numbers values for each applicable polynomial conversion range, as well as a number identifying the corresponding entries in the polynomial conversion constants table.
File System	SELECT
Compression Command Label	NONE
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	NotSupported
Global Coverage	Yes
Day/Night Coverage	Yes
24 Hour Coverage	No
Cloud Cover Type & Source	NONE View Details

Apply Change

[Return to previous page](#)

Document: Done (1.362 secs)



DPM GUI: Add New [NON-ECS] Collection Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop Search Print

 **Data Pool Maintenance**  TS2

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Data Source:NON-ECS Group ID:UARS Display Name:UARS Description:Test of insertion of Non-ECS data

Add New Collection

Collection	<input type="text"/>
Version	<input type="text"/>
Description	<input type="text"/>
File System	SELECT
Compression Command Label	NONE
Science Granules and/or Metadata	Science and Metadata
Data Pool Insertion	Invalid for data pool
Quality Summary Url	<input type="text"/>
Spatial Search Type	Not supported
Global Coverage	Yes
Day/Night Coverage	Yes
24 Hour Coverage	No
Cloud Cover Type & Source	NONE View Details

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Document: Done (2.423 secs)



DPM GUI: Add Collection Group Page



Data Pool Maintenance GUI -- TS2 MODE -- Netscape

File Edit View Go Bookmarks Tools Window Help

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Add Collection Group

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

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

Document: Done (2.246 secs)

DPM GUI: Modify Collection Group Page



Data Pool Maintenance GUI -- TS2 MODE - Netscape

File Edit View Go Bookmarks Tools Window Help

Back Forward Reload Stop <http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmManageCollGroups.pl?collAction=2> Search Print

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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 ACRIM mission	<input type="checkbox"/>
ECS	AIRA	AIRA	AIRS/AMSU/MHS collections/granules from the Aqua mission	<input type="checkbox"/>
ECS	AMSA	AMSA	AMSR-C collections/granules from the Aqua mission	<input type="checkbox"/>
ECS	AMSR_L1A	AMSR_L1A	AMSR/ADEOS-II L1A Raw Observation Counts	<input type="checkbox"/>
ECS	ASTT	ASTT	ASTER collections/granules from the Terra mission	<input type="checkbox"/>
ECS	ASTTER	ASTTER	testing for remaping you can remove it	<input type="checkbox"/>
ECS	BRWS	BRWS	Browse collections/granules	<input type="checkbox"/>
ECS	C&DD	C&DD	dddd	<input type="checkbox"/>
ECS	DASP	DASP	Data Assimilation System Products	<input type="checkbox"/>
ECS	GLAS	GLAS	GLAS/ICESat L1B Global Waveform-based Range Corrections Data	<input type="checkbox"/>
ECS	LSR7	LSR7	All collections/granules from the Landsat 7 mission	<input type="checkbox"/>
ECS	MAPPINGASTER	AST_L1BT	testing for regresstion Groupid up to 12 characters	<input type="checkbox"/>
ECS	MAPPINGGLA05	MAPPINGGLA05	GLAS/ICESat L1B Global Waveform-based Range Corrections Data	<input type="checkbox"/>

Document: Done (3.89 secs)

DPM GUI: Detailed List of Data Pool Themes Page



Data Pool Maintenance GUI in mode TS2 – Netscape

http://p2dps01.pvc.ecs.nasa.gov:22121/cgi-bin/EcDIDpmThemesFrame.pl

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Web Visible ALL Insert Enabled ALL WCS No WMS No PreConvert No Beginning Letters

Detailed list of Data Pool Themes

Theme Name Description	Web	Insert	WCS	WMS	PreConvert	Click on Box to Delete
BE_S5_01 NONE MOD13Q1v004 BE_S5_01 NONE MOD13Q1v004	No	Yes	No	No	No	<input type="checkbox"/>
BE_S5_01 NONE MYD13A2v004 BE_S5_01 NONE MYD13A2v004	No	Yes	No	No	No	<input type="checkbox"/>
BE_S5_01 NONE MYD13Q1v004 BE_S5_01 NONE MYD13Q1v004	No	Yes	No	No	No	<input type="checkbox"/>
NonOWSTheme MOD000.004 Granules not associated with OWS	No	Yes	No	No	No	<input type="checkbox"/>
SYNERGYIV MOD11A1.001	No	Yes	No	No	No	<input type="checkbox"/>

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

Legend: **Web:** Web Visible **Insert:** Insert Enabled **WCS:** WCS Enabled **WMS:** WMS Enabled **PreConvert:** Preconvert (WMS/WCS only)

Document: Done (2.68 secs)

DPM GUI: Add New Theme Page



Data Pool Maintenance GUI in mode TS2 – Netscape

File Edit View Go Bookmarks Tools Window Help

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

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

Data Pool Maintenance GUI in mode...

Data Pool Maintenance

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Web Visible | ALL | Insert Enabled | ALL | WCS | ALL | WMS | ALL | PreConvert | ALL | Beginning Letters |

Add New Theme

Theme Name	Description	Web Visible	Insert Enabled
Theme <input style="width: 90%;" type="text"/>	Description <input style="width: 90%;" type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
WCS	WMS	PreConvert	
<input type="checkbox"/>	<input type="checkbox"/>		

[Return to theme list](#)

Document: Done (1.247 secs)

DPM GUI: Modify Theme Page



Data Pool Maintenance GUI in mode TS2 – Netscape

File Edit View Go Bookmarks Tools Window Help

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

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

Data Pool Maintenance GUI in mode...

Data Pool Maintenance TS2

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

Web Visible ALL Insert Enabled ALL WCS No WMS No PreConvert No Beginning Letters

Modify Theme

Theme Name	Description	Web Visible	Insert Enabled	WCS	WMS	Pre Convert	Click on Box to Modify
BE_S5_01 Both MYD11A1v004	Both theme for ticket BE_S5_01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BE_S5_01 NONE MOD13Q1v004	BE_S5_01 NONE MOD13Q1v004	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BE_S5_01 NONE MYD13A2v004	BE_S5_01 NONE MYD13A2v004	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BE_S5_01 NONE MYD13Q1v004	BE_S5_01 NONE MYD13Q1v004	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BE_S5_01 WCS MOD13A2v004	WCS theme for ticket BE_S5_01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BE_S5_01 WMS MOD11A1v004	WMS theme for ticket BE_S5_01	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CombinedThemeA	MOD11A1.004 B N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CombinedThemeB	MYD11A1.004 B N	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DAACMOD09A1	Testing DAAC scenario	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DAACMOD11A1	TEST	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Document: Done (2.871 secs)

DPM GUI: Help Page



Data Pool Maintenance GUI – Netscape

File Edit View Go Bookmarks Tools Window Help

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

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

- 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)
- 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.
- 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.
- 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.
- 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_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. Consult help tab and see section for NON-ECS add Collection Screen	Unable to add a new non-ECS collection	Special characters/small letters are entered. Non-ECS collection name should be in capital letters and without any special characters.
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
- **Data Pool Delete Access Statistics Data Utility**
 - Deletes granule access data in a specified time range from the Data Pool database
- **Data Pool Restore Access Statistics Data Utility**
 - Restores granule access data for a specific time range from an ASCII archive file to the Data Pool database
- **Batch Insert Utility**
 - Inserts non-ECS data and ECS data that are already in the archive into the Data Pool

Data Pool Scripts (Cont.)



- **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 QA Update Utility**
 - Updates the QA data for granules in the Data Pool inventory; both the inventory and the corresponding XML files on disk are updated
- **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

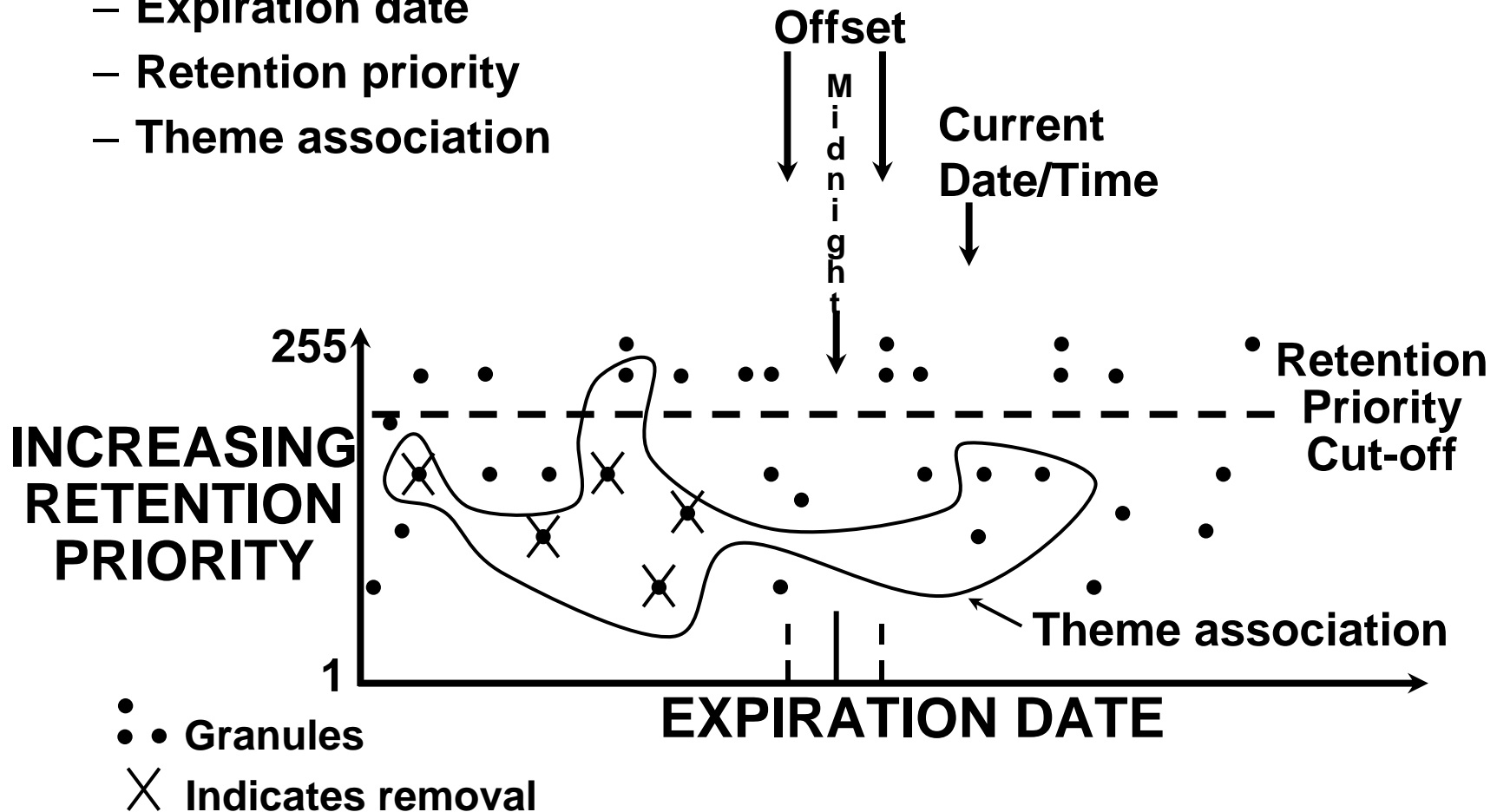


- **Extend retention of data already in Data Pool**
- **Options**
 - **-noprompt:** Suppress prompts and detailed information
 - **-theme:** Specifies a valid theme name (i.e., a character string that matches an existing theme name in the Data Pool inventory)
- **Run for a single granule with command-line 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



Data Pool Cleanup Utility (Cont.)



- **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 through the EcBmBulkURL utility; no data is actually cleaned up from the disks or database inventory
 - **finishdelete** - Cleanup Utility deletes all of the data that was last found during a run with the predelete parameter; EcBmBulkURL utility is not invoked because this run performs the actual cleanup of the database inventory and disks of what was previously reported to ECHO
 - **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**]

Bulk Metadata Generation Tool (BMGT)



- **Several ECS data collections are created maintained at each site to store the bulk metadata and bulk browse data**
- **Bulk Metadata Generator and Bulk Browse Generator Tools are run daily at each site to populate the data collections**
 - **One metadata product is created per ESDT group per day**
 - **Each product contains an external representation of the metadata for each new, updated, or deleted granule that is a member of the ESDT group**
 - **Format used for the external representation of the metadata is XML**
 - **One bulk browse product is produced per day that contains references to all new, updated, or deleted browse granules**
 - **Value-added providers may use any of the standard ECS search, order, and subscription capabilities to find and order these bulk metadata and browse products**

Bulk Metadata Generation Tool (BMGT) (Cont.)



- **ECS data collections for storing the bulk metadata and bulk browse data**
 - **The ECSMETC and ECSMETG data collections store products that contain metadata for multiple collections and multiple granules**
 - **ECSBBR collection stores products that contain browse product references**
 - **Has a custom acquire service that converts the browse product references into actual browse products during distribution**
 - **ECSMETV collection stores products that contain the entire set of valids contained within the SDSRV database for a particular instance in time**
 - **BMGT places XML products, .met and PDR files in a polling directory for Ingest pick up via the Science Investigator-Led Processing System (SIPS) interface**
 - **After successful archiving, the products are pushed to ECHO via SIPS interface**

Bulk Metadata Generation Tool (BMGT) (Cont.)



- **The distribution of bulk browse products is not a function of BMGT; it is managed by OMS**
 - **With Release 7.11 bulk browse could be reconfigured in OMS to remove the Synergy III exception for ECSBBR. In this case the OMS submits an insert request for the ECSBBR granule to the DPL CI (rather than SDSRV)**

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 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 & 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
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	marilynk@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: Do Filtering

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 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

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

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



A screenshot of a Netscape browser window displaying the "DataPool Order Status & Control" Queue Control page. The browser title is "DataPool: Request Status - Netscape" and the address bar shows the URL "http://n0dps01u.ecs.nasa.gov:22000/OPS/order.jsessionid=vj1hvot31?page=config". The page header includes the HOSDIS logo and the title "DataPool Order Status & Control" with navigation links for "Queue Control", "Orders", "Order Items", and "Help". The main content area is titled "Processing and Queue Status" and contains several control elements: a "HEG Front End Server" status set to "UP" with "Exit Gracefully" and "Exit Immediately (No Cleanup)" buttons; a "HEG Front End Processing State" dropdown menu set to "Process orders in the order queue"; a "Maximum number of HEG Converter Processes" input field set to "10"; and a "Maximum Order Queue Size" input field set to "100". Below these fields are "Apply Changes" and "Reset" buttons. 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".

Open Geospatial Consortium (OGC) Web Services (OWS) Support



- **Deployment of Open Geospatial Consortium (OGC) Web Services (DOWS)**
 - **For Synergy V DOWS allows OGC-compliant clients the ability to search, map, download, and subset (spatially and temporally) data residing in the EOS Data Pools**
 - **Consequently, a configurable subset of the EOS Data Pools' inventory can be accessed via the following OGC Web Services (OWS):**
 - **Web Coverage Service (WCS)**
 - **Web Mapping Service (WMS)**
 - **For Synergy V DOWS is implemented at the LP DAAC only**

OWS Support: DOWS (Cont.)



- **The following activities support the access of WCS/WMS to data in the EOS Data Pools:**
 - **Data enabling**
 - Definition and population of OWS-enabled inventory in the Data Pool
 - **Data conversion**
 - Pre-conversion of some OWS-enabled inventory from HDF-EOS format to GeoTIFF format (conversion upon Data Pool insert rather than when accessed by the end user)
 - **Data exposure**
 - Exposing the availability of OWS-enabled data to end users by replicating metadata pertaining to the OWS-enabled inventory from the Data Pool database to the WCS/WMS applications' database (via the IONIC Indexer API)
 - **Data publishing**
 - Exporting (via BMGT and OWS Binding Utility) to the ECHO system the metadata for all OWS-enabled data that has been successfully exposed so OGC clients can search for data offered by WMS/WCS

OWS Support: DOWS (Cont.)



- **Several DOWS scripts provide the operator with utilities or applications for managing DOWS maintenance**
 - **DOWS Synchronization Utility:** propagates changes in the OWS-enabled inventory in the Data Pool to the IONIC Indexer on a regular (e.g., daily) basis to make the data visible as WCS and/or WMS services to any OGC compliant web client [especially the Earth Science Gateway (ESG) OGC client]
 - **DOWS GeoTIFF Converter Utility:** “pre-converts” HDF-EOS files to GeoTIFF format on a regular (e.g., daily) basis
 - **OWS Binding Utility (OBU):** exports to ECHO granule-level metadata concerning OWS-enabled data in the Data Pool, including which granules from the OWS-enabled collections have been successfully indexed for WCS or WMS (or both) web service(s) by the DOWS Synchronization Utility

OWS Support: DOWS (Cont.)



- **Manually Invoking the DOWS Synchronization Utility**
 - **DOWS Synchronization utility performs the following functions:**
 - **Scans the Data Pool inventory for new and deleted OWS-enabled inventory**
 - **When inventory that is marked for pre-conversion is detected, creates a GeoTIFF Converter to convert HDF-EOS to GeoTIFF files and register the GeoTIFF files in the Data Pool database**
 - **If running in “insert” or “both” (i.e., both “insert” and “delete”) synchronization mode, the new inventory (including generated GeoTIFF inventory) is added to the IONIC indexing system**
 - **If running in “delete” or “both” synchronization mode, the expired inventory is removed from the IONIC indexing system**

OWS Support: DOWS (Cont.)



- **Manually Invoking the DOWS Synchronization Utility (Cont.)**
 - **When specifying the temporal extent of the conversion session, the operator specifies one of two mutually exclusive temporal modes:**
 - **Previous mode, which specifies an amount of time before the time when the Synchronizer is executed (i.e., how long before the present time)**
 - **Range mode, which specifies a period of time from a particular date/time to some other date/time**
 - **In addition, the operator can specify a synchronization mode:**
 - **Insert mode specifies that new inventory only (not deleted inventory) should be synchronized**
 - **Delete mode specifies that deleted inventory only (not new inventory) should be synchronized**
 - **Both mode specifies that both new inventory and deleted inventory should be synchronized (default mode)**

OWS Support: DOWS (Cont.)



- **Manually Invoking the DOWS Synchronization Utility (Cont.)**
- **Range Mode:**
 - **EcOwSynchronizer -mode <MODE> -start <STARTDATE> [-stop <STOPDATE>] [-insert | -delete]**
- **Previous Mode:**
 - **EcOwSynchronizer -mode <MODE> -duration <period> [-count <integer>] [-insert | -delete]**

OWS Support: DOWS (Cont.)



- **Manually Invoking the DOWS GeoTIFF Converter Utility**
 - **DOWS GeoTIFF Converter utility performs the following functions:**
 - **Converts one or more HDF-EOS file(s) to GeoTIFF format**
 - **May register generated files in the Data Pool database (optional)**
 - **May use a temporal constraint to determine a list of HDF-EOS files to be converted (optional)**
 - **May use a supplied list of file names to determine which HDF-EOS files are to be converted (optional)**
 - **When specifying the temporal extent of the conversion session, the operator specifies one of two mutually exclusive temporal modes:**
 - **Previous mode, which specifies an amount of time before the time when the converter is executed (i.e., how long before the present time)**
 - **Range mode, which specifies a period of time from a particular date/time to some other date/time**

OWS Support: DOWS (Cont.)



- **Manually Invoking the DOWS GeoTIFF Converter Utility (Cont.)**
- **Range Mode:**
 - **EcOwGeotiffConverter -mode <MODE> -start <STARTDATE> [-stop <STOPDATE>]**
- **Previous Mode:**
 - **EcOwGeotiffConverter -mode <MODE> -duration <period> [-count <integer>]**

OWS Support: DOWS (Cont.)



- **Using the DOWS OWS Binding Utility (OBU)**
 - **OBU exports granule-level information for OWS-enabled data in the Data Pool**
 - This information indicates which granules from the OWS-enabled collections have been successfully indexed for WCS or WMS (or both) web service(s) by the DOWS, and already exported to ECHO via the BMGT
- **Syntax:**
 - **EcBmOwsBindingStart <MODE>**

OWS Support: Standalone OGC (WCS/WMS) Archive (Prototype)



- **Standalone OGC (WCS/WMS) Archive (Prototype)**
 - **Synergy V includes a prototype of a stand-alone OGC solution that offers the following benefits:**
 - **Serves as a low-cost alternative to the COTS products that implement OGC standards**
 - **Offers a path for integration and enabling of selected data holdings for OpenGIS Web Services (OWS) in order to promote interoperability**
 - **The initial deployment site is the GES DAAC**

OWS Support: Standalone OGC Archive (Cont.)



- **One of the principal components of the Standalone OGC Archive is the Archive-to-OWS Gateway (AOG)**
 - **Allows easy registration of existing data-provider holdings (as WCS coverages, WMS maps, and their corresponding metadata) with the OGC engine**
 - **A data provider that wishes to expose some or all of its WMS/WCS-compatible data has to perform a sequence of well defined “OWS registration steps”**
 - **After successful completion of the registration steps, the provider is able to respond to WMS and WCS HTTP requests via the OWS engine**
 - **In the GES DAAC prototype deployment the DAAC is the data provider and the WMS/WCS-compatible data is in the Data Pool**
- **A DAAC OWS utility, the OWS Registration Utility, provides the interface between the DAAC Data Pool and the AOG**

OWS Support: Standalone OGC Archive (Cont.)



- **Using the OWS Registration Utility**
 - Provides the ECS Operations Staff with a command-line interface to register or unregister Web Coverage Service (WCS) coverages and Web Mapping Service (WMS) layers for granules that reside in the Data Pool
 - Serves as an interface between the DAAC Data Pool and the Archive-to-OWS Gateway (AOG)
- For registration (indicated by the command line parameter **-register**), the OWS Registration Utility requires a command-line parameter (i.e., **-granulefile**) that specifies an input file containing a list of granule IDs and another parameter (**-regtype**) specifying the type of registration; i.e., either **WCS** or **WMS**
 - The input file can be generated with the **DOWS Synchronization Utility**

OWS Support: Standalone OGC Archive (Cont.)



- **Using the OWS Registration Utility (Cont.)**
 - **For each granule ID in the input file, the registration sequence is as follows:**
 - **OWS Registration Utility converts each granule data file from HDF-EOS to GeoTIFF(s) for WCS coverage registrations (unless the files were preconverted on DPL insert)**
 - **Utility extracts the metadata from the granule DPL metadata file and generates the AOG registration XML file, which includes the OWS-style metadata, type of registration being requested, and data file locations**
 - **Utility places the AOG registration XML file, OWS metadata files, and OWS data files in a configured area then notifies the AOG of the registration, passing the location of the registration file to the AOG (which handles the remainder of the OWS registration process)**
 - **A group name can be registered (-group parameter) then coverages and layers can be registered as part of the group**

OWS Support: Standalone OGC Archive (Cont.)



- Using the OWS Registration Utility (Cont.)
- Registration
 - **EcDIOWSUtility -register -regtype <type> -granulefile <file name> [options]**
 - OR
 - **EcDIOWSUtility -register -regtype <type> -geofile <file name>**

OWS Support: Standalone OGC Archive (Cont.)



- **Using the OWS Registration Utility (Cont.)**
- **During unregistration (indicated by the command line parameter -unregister) OWS-enabled data are unregistered from the OWS inventory**
 - **An option (-deletedata) removes the associated data files (WCS coverages and WMS layers)**
- **Unregistration**
 - **EcDIOWSUtility -unregister -regtype <type> -granulefile <file name> [-deletedata]**
 - OR
 - **EcDIOWSUtility -unregister -regtype <type> -resourcefile <file name> [-deletedata]**
- **The unregistration is provided via an AOG XML file that contains unregistration instructions**

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.)



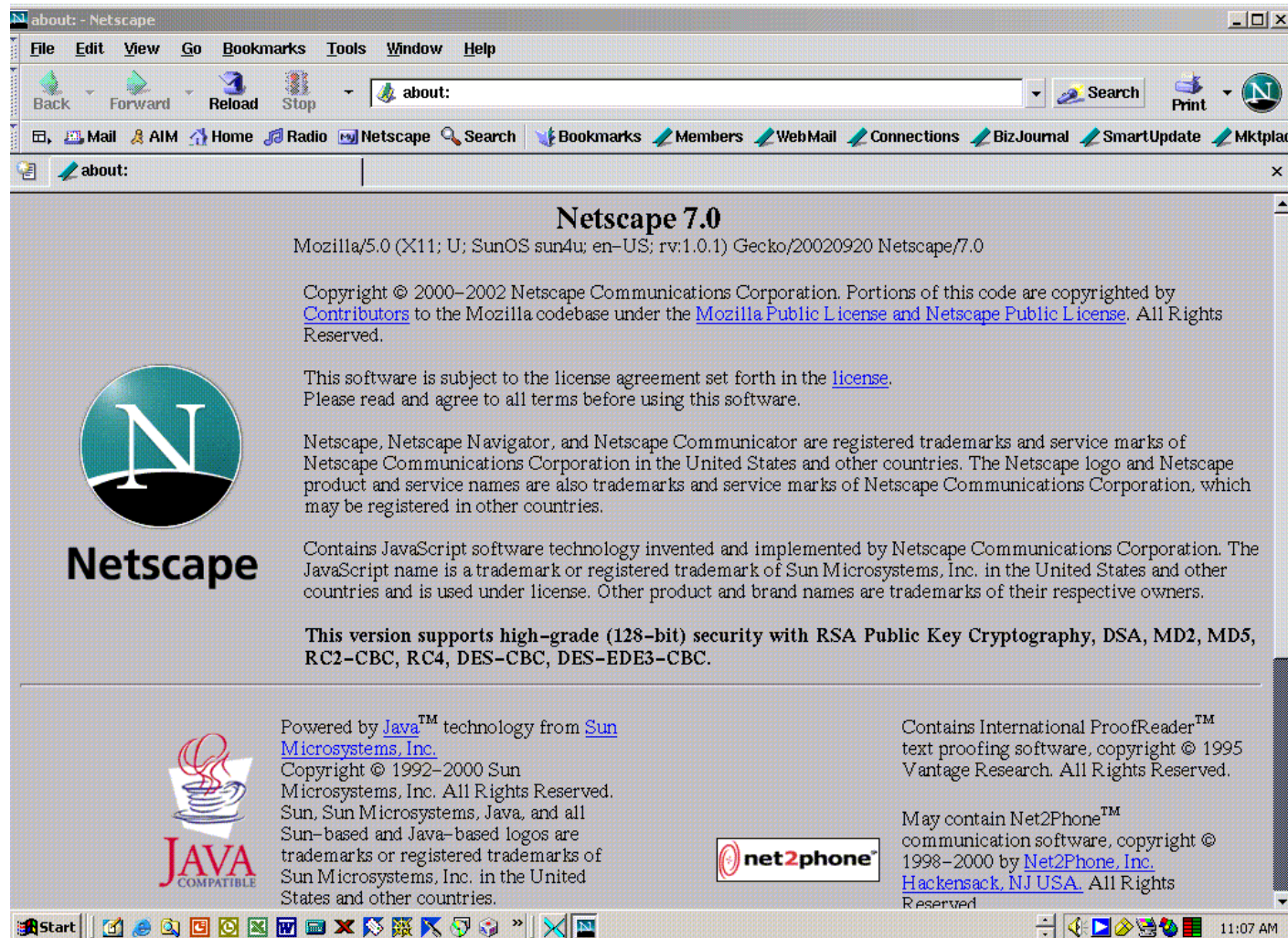
- **This lesson provides instruction in the full-capability version of the Spatial Subscription Server GUI. In general, both full-capability operators and limited-capability operators can view the following items:**
 - **Subscribable events**
 - **Subscriptions**
 - **Bundling orders**
 - **Action queue**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

A screenshot of a Netscape browser window displaying the Spatial Subscription Server GUI Home Page. The browser title is "Spatial Subscription Server ??? OPS - Netscape". The address bar shows the URL "http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbHomePage.pl". The page has a green header with the title "Spatial Subscription Server OPS" and a navigation menu with links: Home Page, List Events, Manage Subscriptions, Manage Bundling Orders, Monitor Queues, Help, and End Session. The main content area contains a welcome message and a bulleted list of features.

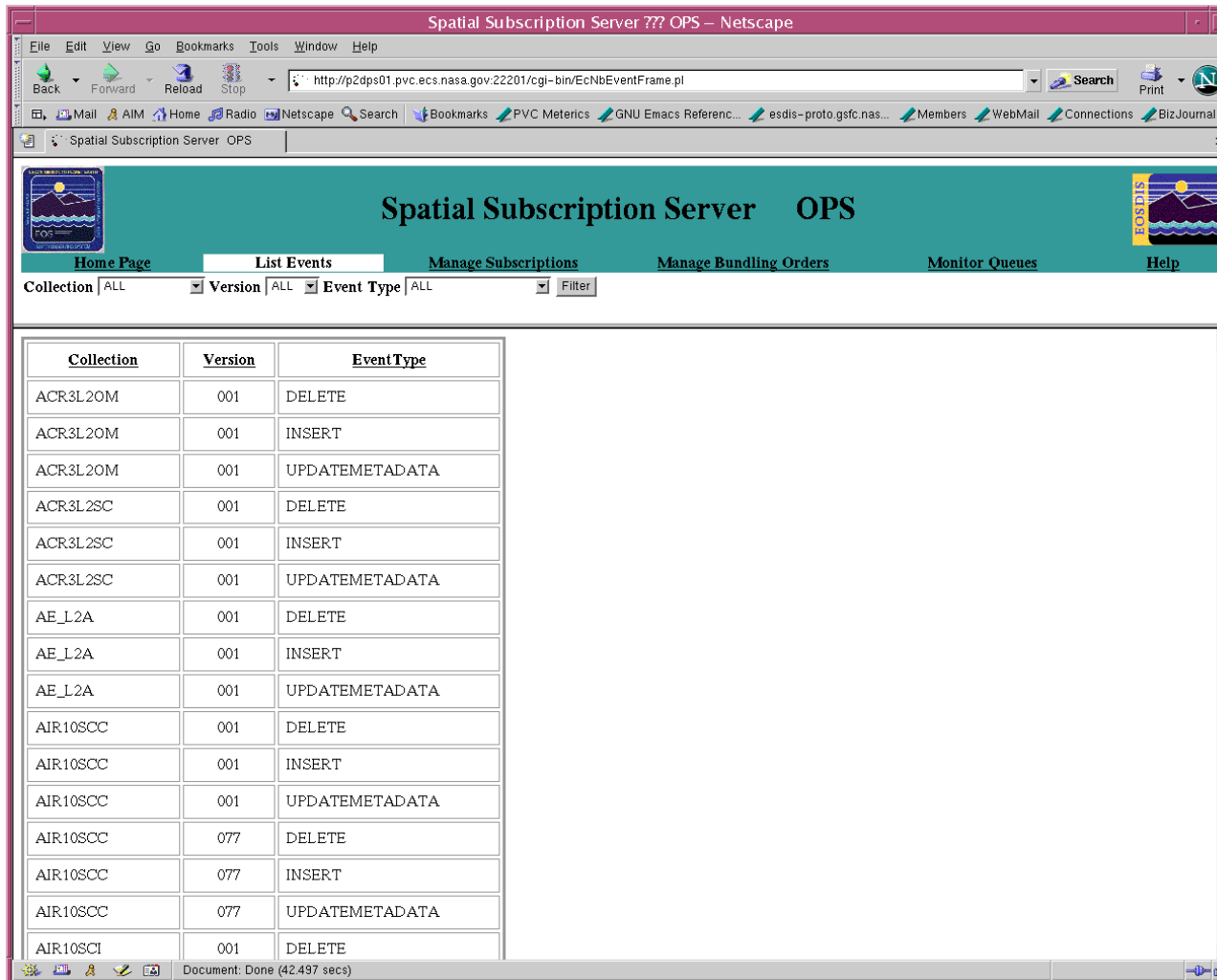
Spatial Subscription Server OPS

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

Welcome to the Spatial Subscription Server GUI, a web-based interactive utility for:

- Listing subscribable events
- Managing subscriptions (list, view, cancel, update, add, suspend, resume)
- Managing bundling orders
- Monitoring runtime queues and production statistics

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 – Netscape

File Edit View Go Bookmarks Tools Window Help

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

Spatial Subscription Server OPS

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

Document: Done (17.412 secs)

Spatial Subscription Server GUI Add Subscriptions Page



Spatial Subscription Server 777 OPS - Netscape

http://sdsrv01.pvc.ecs.nasa.gov:2201/cgi-bin/EchA-AddSubscription1B.pl

Spatial Subscription Server OPS

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

User Id: cmshared Status: Active Start Date: 02/21/2004 Expiration Date: 2/21/2005

Short Name / Version / Event Type: MOD001HM 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
0400076765

(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: cmshared

User String:

Email Address: cmshared@pds02u.ecs.nasa.gov

Media Format: FILEFORMAT

Media Type: [FtpPush]

Priority: [NORMAL]

Notify Type: MAIL

Information for FtpPush or Secure Copy Distribution (scp) Only

User:

Password:

Enter password again for verification:

Host:

Directory:

E-Mail Notification Information

Action Address: cmshared@pds02u.ecs.nasa.gov

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:

Add Subscription

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.vato.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://sp4p01.pvc.ecs.nasa.gov/22251/gp-bin/ECHSSubscriptionChoose.pl

Spatial Subscription Server OPS

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

User ID: [selected] Status: [Active]

Start Date (MMDD/YYYY HHMM) [02/10/04 12:00]

Expiration Date (MMDD/YYYY HHMM) [02/20/05 12:00]

Subscribe to Event

Short Name / Version / Event Type: MOD01KM 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)

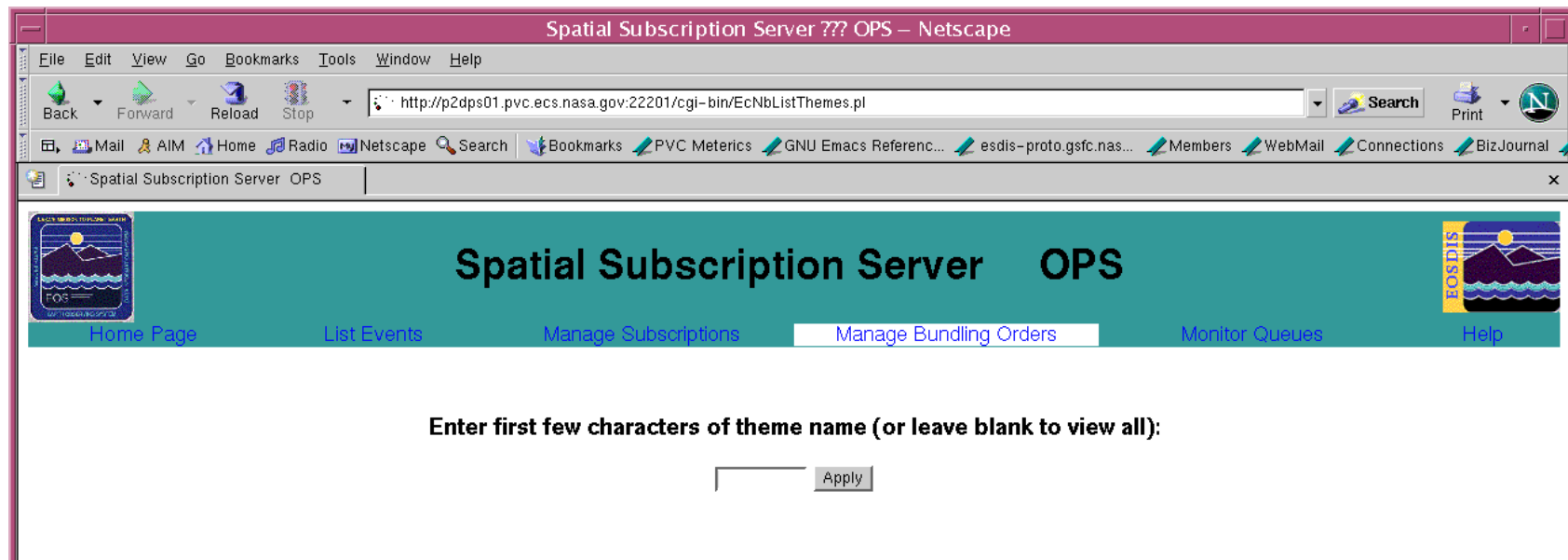
Retention Priority [] (valid range 1 thru 255)

Science Granules and/or Metadata []

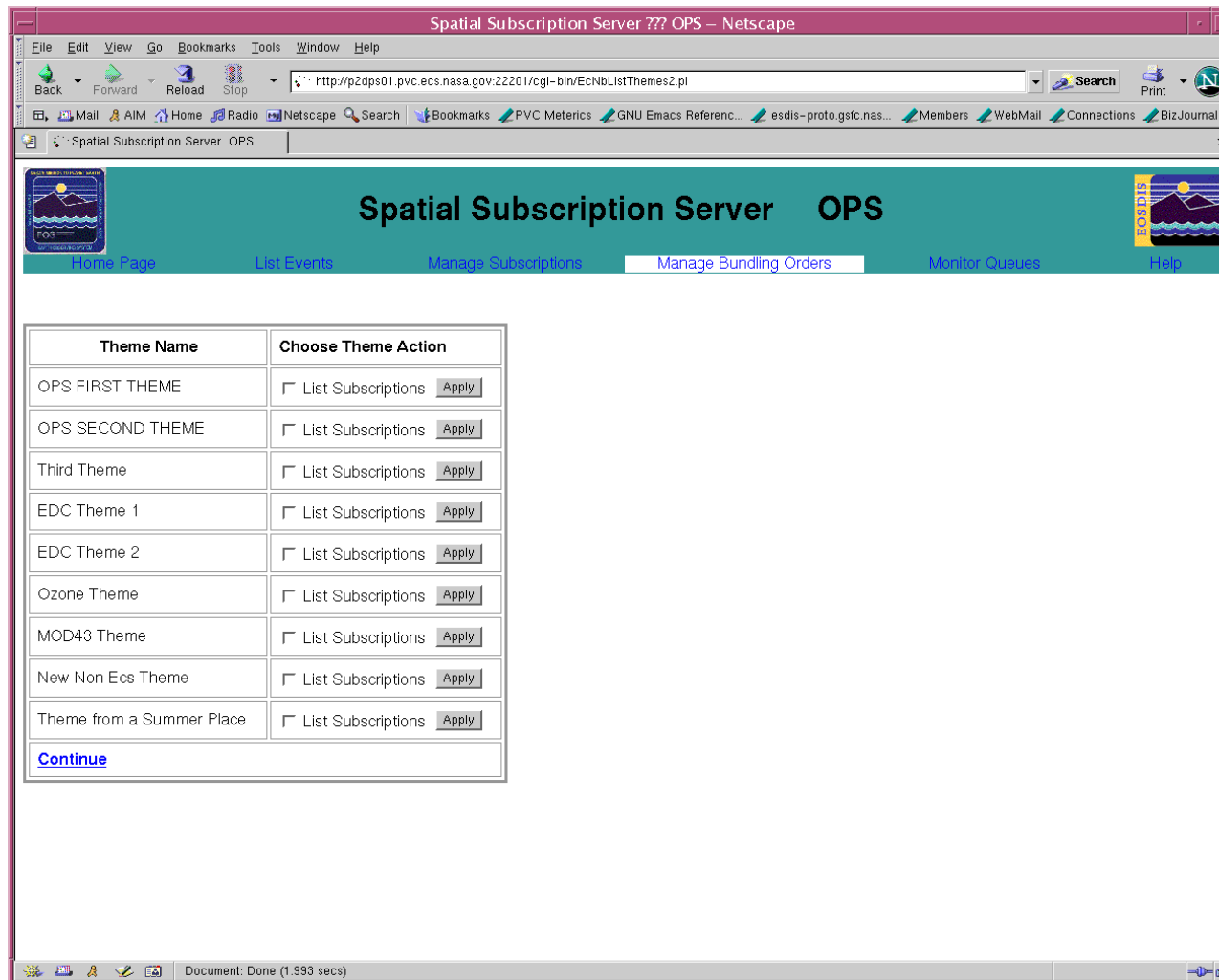
Check here to add theme: Enter first few chars of name: []

Update Subscription

Spatial Subscription Server GUI List Themes Request Page



Spatial Subscription Server GUI Theme List Page



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"/>
Continue	

Spatial Subscription Server GUI List Subscriptions for Theme 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/EcNbListSubsForTheme.pl> Search Print

Spatial Subscription Server OPS

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	View Update Cancel <input type="button" value="Apply"/>
619	cmops	Active	Apr 9 2004 12:00AM	DFLAXCHM 1 INSERT	View Update Cancel <input type="button" value="Apply"/>
620	cmops	Active	Apr 9 2004 12:00AM	MODOCL2 1 INSERT	View Update Cancel <input type="button" value="Apply"/>
621	cmops	Active	Apr 9 2004 12:00PM	MODOCL2A 1 INSERT	View Update Cancel <input type="button" value="Apply"/>
1104	cmshared	Canceled	Feb 21 2004 2:35PM	MOD021KM 3 INSERT	View Update Cancel <input type="button" value="Apply"/>
					Suspend All Resume All Cancel All <input type="button" value="Apply"/>

Document: Done (2.004 secs)

Spatial Subscription Server GUI Manage Bundling Orders Page



The screenshot shows a Netscape browser window displaying the 'Spatial Subscription Server OPS' website. The page title is 'Spatial Subscription Server OPS' and the URL is 'http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbManBundOrder.pl?filtuserid=ALL&filtmediatype=ALL&filtstatus=in(fit)CANCE'. The navigation menu includes 'Home Page', 'List Events', 'Manage Subscriptions', 'Manage Bundling Orders' (selected), 'Monitor Queues', and 'Help'. Below the navigation is a 'Bundling Order List' with links for 'Add Bundling Order' and 'Configure Defaults'. There are filters for 'User' (rginocch), 'MediaType' (ALL), and 'Status' (in(fit)CANCELLED). The main content area contains a table of bundling orders.

Bundling Order	User	Creation Date	Expiration Date	Media Type	Status	Choose Bundling Order Action
0400068737	rginocch	Aug 12 2003 6:28PM	Aug 11 2004 12:00AM	FtpPush	ACTIVE	View Update Cancel List Subs Apply
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

Continue

Spatial Subscription Server GUI Add Bundling Order Page



A screenshot of a Netscape browser window displaying the Spatial Subscription Server GUI. The browser title is "Spatial Subscription Server ??? OPS - Netscape". The address bar shows the URL "http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbAddBundle.pl". The page header features the "Spatial Subscription Server OPS" title and a navigation menu with links: "Home Page", "List Events", "Manage Subscriptions", "Manage Bundling Orders" (highlighted), "Monitor Queues", and "Help". Below the header, there are links for "Bundling Order List", "Add Bundling Order", and "Configure Defaults". The main content area contains a form titled "Add Bundling Order" with the following fields: "UserID" (text input), "Expiration Date" (text input with value "02/20/2005" and a "(mm/dd/yyyy)" hint), and "Media Type" (dropdown menu with "CDROM" selected). At the bottom of the form are "continue" and "clear" buttons. The browser's status bar at the bottom indicates "Document: Done (3.278 secs)".

Spatial Subscription Server GUI Add Bundling Order: Data Pages



Hard Media

Add Bundling Order

User ID: cmshared
Expiration Date: 11/13/2003
Media Type: CDROM
Email Address: cmshared@usdoj.gov
User String:
Distribution Priority: XPRESS

Shipping Information

Street1: 8800 McGowan Dr.
Street2:
Street3:
City: Landover
State: Maryland
Country: United States
Zip Code: 20774

Phone number: 301-411-1111
FAX number:

Completion Criteria

Minimum Bundle Size (GB): 0.56
Minimum Granule Count: 10
Maximum Bundle Age (days): 0
* required field

FTP Push

Add Bundling Order

User ID: cmshared
Expiration Date: 11/13/2003
Media Type: FtpPush
Email Address: cmshared@usdoj.gov
User String:
Distribution Priority: XPRESS

FtpPush Parameters

FTP Username:
FTP Host:
FTP Password:
Rsync Password:
FTP Directory:

Completion Criteria

Minimum Bundle Size (GB): 0.56
Minimum Granule Count: 10
Maximum Bundle Age (days): 0
* required field

FTP Pull

Add Bundling Order

User ID: cmshared
Expiration Date: 11/13/2003
Media Type: FtpPull
Email Address: cmshared@usdoj.gov
User String:
Distribution Priority: XPRESS

Completion Criteria

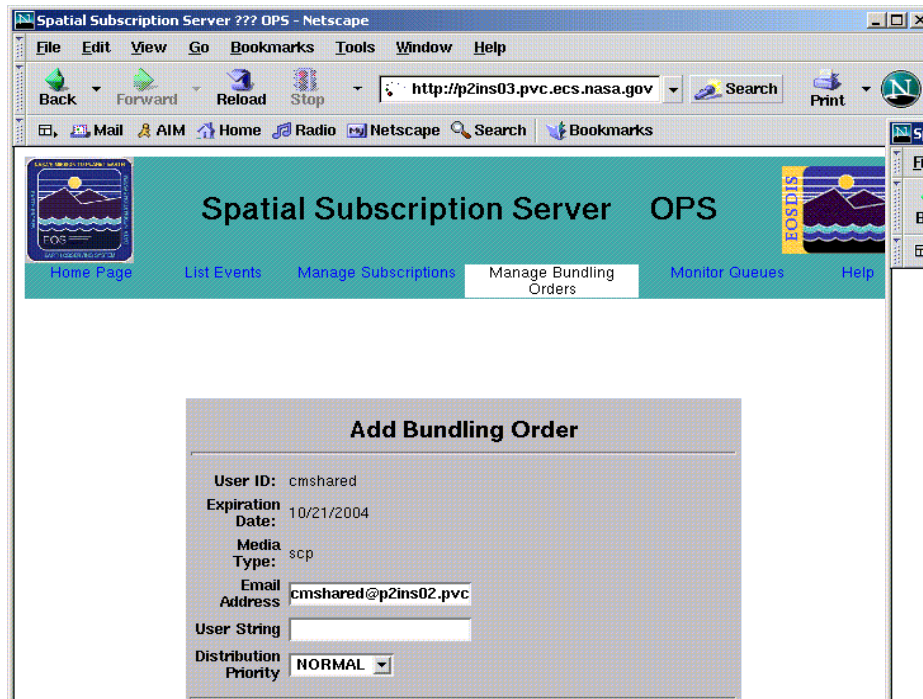
Minimum Bundle Size (GB): 0.56
Minimum Granule Count: 10
Maximum Bundle Age (days): 0
* required field

Spatial Subscription Server GUI

Add Bundling Order: Data Pages



SCP



Spatial Subscription Server ??? OPS - Netscape

File Edit View Go Bookmarks Tools Window Help

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

Add Bundling Order

User ID: cmshared

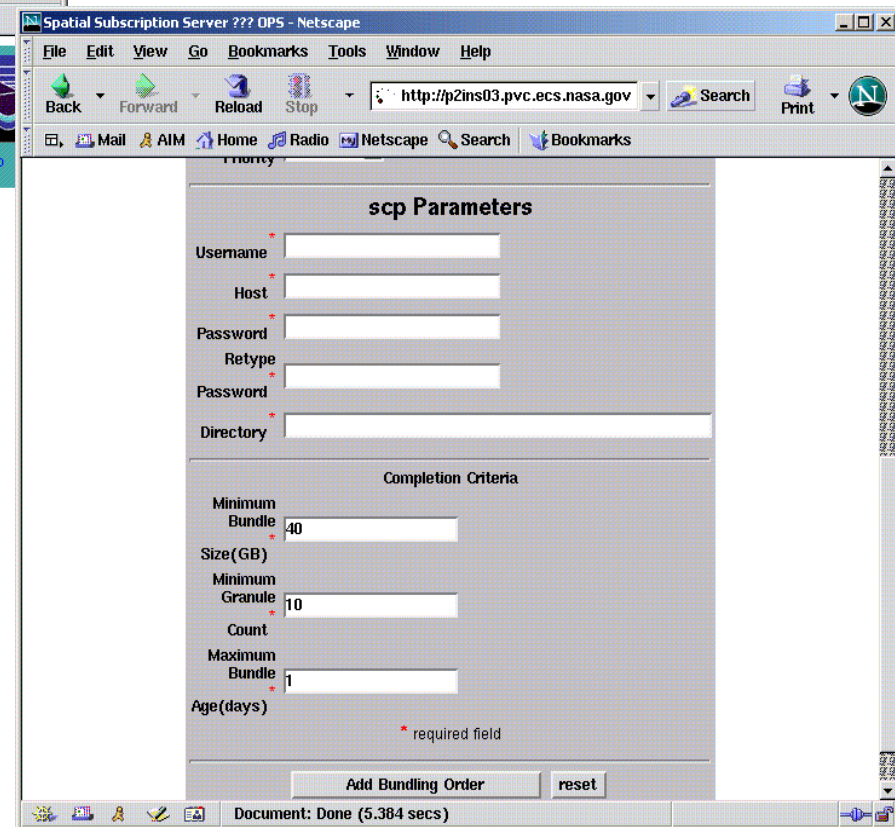
Expiration Date: 10/21/2004

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

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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

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

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 bo back to the Bundling Order list.)

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"/>

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: testing
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 – Netscape

http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbConfigureBO.pl

Spatial Subscription Server OPS

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"/>

Change Bundling Criteria Reset

Spatial Subscription Server OPS – Netscape

ConfigureBO.pl

Spatial Subscription Server OPS

Manage Bundling Orders | Monitor Queues | Help

Confirm The Following Criteria Change

2

Cancel

Spatial Subscription Server GUI List Action Queue 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/EcNbActionFrame.pl Search Print

Spatial Subscription Server OPS

Spatial Subscription Server OPS

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

Action Type ALL Subscription ALL Status ALL Filter

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

Document: Done (15.836 secs)

Spatial Subscription Server GUI List Statistics Page



Spatial Subscription Server ??? OPS – Netscape

http://p2dps01.pvc.ecs.nasa.gov:22201/cgi-bin/EcNbListStatistics.pl

Spatial Subscription Server OPS

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](#)

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.MI1B2E.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.MI1B2T.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.MI1B2T.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.MI1B2E.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.MI1B2T.001.126750	Feb 1 2005 7:36PM	<input type="button" value="Remove Action"/>