

4.11.11 Spatial Subscription Server Command Line Interface

The Spatial Subscription Server (SSS) Command Line Interface (CLI) allows the user to add a new subscription, delete a subscription, update a subscription, or view a subscription without using a GUI. The details of the subscription are contained in a text file.

The CLI is installed in the utilities directory for each mode. You must go to the appropriate mode directory to access the correct database for a particular mode.

4.11.11.1 Quick Start Using Spatial Subscription Server Command Line Interface

To execute the CLI, run the script `EcNbSubscriptionCLIStart`. This script takes three parameters: (1) the mode, (2) the function (Add, Delete, Update and View), and (3) a third parameter, which depends on the function in (2). If the function selected was Delete or View, the third parameter must be the subscription number to be deleted or viewed. If the function selected was Add or Update, the third parameter must be the name of the text file containing the subscription information. This file is assumed to reside in the current directory unless expressed as a qualified pathname.

4.11.11.1.1 Invoking Spatial Subscription Server From the Command Line Interface

The Spatial Subscription Server Command Line Interface (CLI) allows the user to add a new subscription, delete a subscription, update a subscription, or view a subscription without using a GUI.

To execute the Spatial Subscription Server from the command line interface:

```
EcNbSubscriptionCLIStart <mode> <function> <function dependent parameter>
```

Examples:

```
EcNbSubscriptionCLIStart OPS Add MyNewSubscription.txt
EcNbSubscriptionCLIStart TS1 Delete 5199
EcNbSubscriptionCLIStart TS2 Update/home/daacUser/MyOldSubscription.txt
EcNbSubscriptionCLIStart OPS View 2355
```

Notes:

- (1) When adding a subscription, a new subscription number is assigned and returned as output to stdout.
- (2) When deleting a subscription, the user is prompted to confirm the delete.
- (3) When updating a subscription, the number of the subscription to be updated must appear within the text file containing the subscription data.
- (4) When viewing a subscription, the output appears in a new file called `sub.nnn.txt`, where `nnn` refers to the subscription number. This file is created in the current directory.

- (5) To save on typing when adding a subscription, it is helpful to start by viewing a subscription similar to the one being added, edit the resulting text file, and then submit that file as input to the Add command.
- (6) Prior to updating a subscription, always view the subscription first and then make your changes in the resulting text file, submitting it as input to the Update command.
- (7) Physical media distributions for subscriptions are now supported through the use of bundling orders. The simplest way to do this is to create a bundling order via the GUI and then “bundle” the subscription by specifying the bundling order ID (see table below). Alternatively, if a bundling order ID is not specified for a physical media distribution, a bundling order is automatically created for the subscription; however, in this case, all of the required information for the bundling order (such as shipping information) must be specified in the input file for the subscription.
- (8) If the user updates a bundled subscription without altering the bundling order ID, the bundling order is updated along with the subscription.

There is a log file called EcNbSubscriptionCLI.log in the logs directory for each mode. If your command did not appear to succeed, be sure to check the log file to see what went wrong.

The text file generated by the View command, or used as input to the Add or Update commands, consists of several lines of name and values pairs of the form “NAME=value”, one per line. If you wish to introduce comments into your text file, you may do so by starting the line for the comment with the “#” character.

Table 4.11.11-1 shows all possibilities for rows in the text file. This table is intended for reference only. If you have never entered a subscription before, it is recommended you start by entering a few subscriptions using the GUI. Then use the View command of the CLI to generate text files for these subscriptions. Modify these text files to serve as input for adding or updating subscriptions.

Table 4.11.11-1. Text File Contents (1 of 5)

Name	Type	Mandatory	Description
SUBSCRIPTION	Integer	Yes for Update or View; ignored by Add	The subscription number.
USERNAME	Variable Character	Yes	The name of the owner of the subscription. A user profile must already exist for the owner.
STATUS	Variable Character	Yes	The subscription status: Active or Inactive.
EXPIRATION	Date/Time	No (defaults to one year from the current date if not specified)	The expiration date for the subscription.

Table 4.11.11-1. Text File Contents (2 of 5)

Name	Type	Mandatory	Description
ESDT_SHORT_NAME	Variable Character	Yes	The short name for the ESDT being subscribed to.
ESDT_VERSION	Integer	Yes	The version for the ESDT being subscribed to (e.g., 1, if version ID is 001).
EVENT_TYPE	Variable Character	Yes	The type of event being subscribed to: INSERT, DELETE, or UPDATEMETADATA.
NOTE: The next four lines should appear as a block in the text file. Up to five such blocks may be used.			
ATTRIBUTE_NAME	Variable Character	No	The name of a qualifying numeric attribute. Use this only for attributes of type Integer, Float, or Date/Time.
ATTRIBUTE_TYPE	Variable Character	No	The type of a qualifying attribute: Integer, Float, or Date/Time.
ATTRIBUTE_MIN_VALUE	Integer, Float, or Date/Time	No	The smallest acceptable value for this attribute.
ATTRIBUTE_MAX_VALUE	Integer, Float, or Date/Time	No	The largest acceptable value for this attribute.
NOTE: The next three lines should appear as a block in the text file. Up to five such blocks may be used.			
STRING_ATTRIBUTE_NAME	Variable Character	No	The name of a qualifying string attribute.
STRING_ATTRIBUTE_TYPE	Variable Character	No	This is always 'varchar'.
STRING_ATTRIBUTE_VALUE	Variable Character	No	The value that this attribute must have in order to qualify.
NOTE: The next six lines should appear as a block in the text file. Only one such block may be used.			
SPATIAL_ATTRIBUTE_NAME	Variable Character	No	The name of a qualifying spatial attribute: GPolygonContainer, BoundingRectangle, or Nose.
SPATIAL_ATTRIBUTE_TYPE	Variable Character	No	The type of a qualifying spatial attribute: gpolygon, lbox, or PathBlock, respectively.

Table 4.11.11-1. Text File Contents (3 of 5)

Name	Type	Mandatory	Description
SPATIAL_VALUE_SOUTH	Float	No	The lower latitude value for the qualifying rectangle.
SPATIAL_VALUE_WEST	Float	No	The lower longitude value for the qualifying rectangle.
SPATIAL_VALUE_NORTH	Float	No	The upper latitude value for the qualifying rectangle.
SPATIAL_VALUE_EAST	Float	No	The upper longitude value for the qualifying rectangle.
NOTIFY_EMAIL_ADDRESS	Variable Character	No	The email address of the recipient if email notification is desired.
NOTIFY_USER_STRING	Variable Character	No	An optional user string to be included in the email.
NOTIFY_METADATA	Character	No	Indicates whether the email should include all metadata (Y) or just metadata associated with the subscription qualifiers (N).
ACQUIRE_USERNAME	Variable Character	No	The user profile name requesting an acquire.
ACQUIRE_USERSTRING	Variable Character	No	An optional string to be included in the distribution notice.
ACQUIRE_EMAIL_ADDRESS	Variable Character	No	The email address for “acquire” notification. This defaults to the email address in the user profile if not specified here.
ACQUIRE_MEDIA_FORMAT	Variable Character	No	At present, this value should always be FILEFORMAT,
ACQUIRE_MEDIA_TYPE	Variable Character	No	The type of acquire: FtpPush or FtpPull.
ACQUIRE_PRIORITY	Variable Character	No	The distribution priority: VHIGH, HIGH, NORMAL, LOW, or XPRESS. This defaults to the distribution priority in the user profile if not specified here.
ACQUIRE_NOTIFY_TYPE	Variable Character	No	At present, this should always be MAIL.
ACQUIRE_FTP_USER	Variable Character	No	The FTP login name for an FTP push operation.
ACQUIRE_FTP_PASSWORD	Variable Character	No	The password for an FTP push operation.
ACQUIRE_FTP_HOST	Variable Character	No	The destination hostname for an FTP push operation.
ACQUIRE_FTP_DIRECTORY	Variable Character	No	The destination directory for an FTP push operation.
BUND_USER_NAME	Variable Character	Yes, if adding a new bundling order	If present, it must be the same as USERNAME.

Table 4.11.11-1. Text File Contents (4 of 5)

Name	Type	Mandatory	Description
BUND_ORDER_ID	Variable Character	No	The ID of the bundling order to be associated with this subscription. If present, a new subscription is associated with the existing bundling order. If absent, a new order in EcAcOrder is created using the information in BUND_MEDIA_TYPE, BUND_SHIP_PHONE, BUND_SHIP_CTRY, BUND_SHIP_STATE, BUND_SHIP_CITY, BUND_SHIP_FAX, BUND_SHIP_STREET_1, BUND_SHIP_STREET_2, BUND_SHIP_STREET_3, BUND_SHIP_ZIP, BUND_DIST_PRIOR and information obtained from MsAcUsrProfile for USERNAME. A new request in EcAcRequest is created using the above and some or all of BUND_FTP_HOST, BUND_FTP_PASSWORD, BUND_FTP_DIR, and BUND_FTP_USER.
BUND_MAX_BUND_AGE	Float	No	The number of hours which a bundle can have requests incorporated before it is expired.
BUND_MEDIA_TYPE	Variable Character	Yes, if adding a new bundling order	The media type for bundled requests.
BUND_MIN_GRAN_COUNT	Integer	No	The minimum number of granules a bundle can contain before it is distributed.
BUND_MIN_BUND_SIZE	Float	No	The minimum size in MB a bundle must attain before it is distributed.
BUND_EMAIL_NOTIFICATION_ADD_R	Variable Character	No	Free text field to record the optional distribution parameter NOTIFY.
BUND_USER_STRING	Variable Character	No	Optional distribution option, which identifies a request.
BUND_DIST_PRIORITY	Variable Character	No	Distribution priority of the bundling order.
BUND_FTP_HOST	Variable Character	No	The destination hostname for an FTP push operation.
BUND_FTP_PASSWORD	Variable Character	No	The FTP password for an FTP push operation.
BUND_FTP_DIR	Variable Character	No	The destination directory for an FTP push operation.
BUND_FTP_USER	Variable Character	No	The FTP login name for an FTP push operation.
BUND_SHIP_PHONE	Variable Character	No	The phone number for the user requesting the order.

Table 4.11.11-1. Text File Contents (5 of 5)

Name	Type	Mandatory	Description
BUND_SHIP_CTRY	Variable Character	No	The country the order should be shipped to.
BUND_SHIP_STATE	Variable Character	No	The state the order should be shipped to.
BUND_SHIP_CITY	Variable Character	No	The city the order should be shipped to.
BUND_SHIP_FAX	Variable Character	No	The fax number for the user requesting the order.
BUND_SHIP_STREET_1	Variable Character	No	The street address to which the order should shipped.
BUND_SHIP_STREET_2	Variable Character	No	The street address to which the order should shipped.
BUND_SHIP_STREET_3	Variable Character	No	The street address to which the order should shipped.
BUND_SHIP_ZIP	Variable Character	No	The zip code of address to which the order should be shipped.

4.11.11.2 Spatial Subscription Server Command Line Interface Main Screen

The Spatial Subscription Server (NBSRV) Command Line Interface does not have a main screen. It is a command line interface only.

4.11.11.3 Required Operating Environment

O/S requirements are Solaris 2.5.1 or better, or SGI IRIX 6.5 or better.

4.11.11.4 Databases

The Spatial Subscription Server GUI accesses the Spatial Subscription Server, Science Data Server, Data Dictionary and System Management Subsystem's Accountability databases.

4.11.11.5 Special Constraints

There are no special constraints to running the Spatial Subscription GUI.

4.11.11.6 Outputs

There are no outputs from the Spatial Subscription GUI, except for status and error messages.

4.11.11.7 Event and Error Messages

The Spatial Subscription Server GUI issues client side validation errors when adding or modifying a subscription. If the operator does not correct the validation errors, the subscription is rejected when the operator attempts to add or update the subscription. The NBSRV GUI writes status and error messages to the EcNbGUI.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.11.11.8 Reports

The NBSRV GUI does not generate reports.

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4.11.12 Bulk Metadata Generation Tool

The EcOsBulkURL Utility allows operators to make available the File Transfer Protocol (FTP) Universal Resource Locators (URLs) in the Data Pool to the ECS Clearing House (ECHO). These FTP URLs correspond to the products that have already been exported at some prior time by the Bulk Metadata Generation Tool (BMGT).

EcOsBulkURL must be run as cmshared.

The BMGT was enhanced to allow the export of AIRS Summary Browse Products (ASBPs) to ECHO. During generation of ECSBBR products, the BMGT searches the Science Data Server database to find all AIRS products inserted during the export time frame, and then finds all ASBPs associated with these AIRS products. The BMGT includes an association between each AIRS granule and its corresponding ASBP in the ECSBBR browse extensible markup language (XML) file.

ECHO has FTP push subscriptions against ECSBBR inserts, as a result of which the ECSBBR granules are pushed to ECHO for processing. As the ECSBBR granule is acquired for this purpose, ECS includes ASBP granules in the distribution along with all the other non-AIRS browse granules defined in the ECSBBR XML granule file. As a result, ECHO receives the ECSBBR granule, along with the ASBP and standard browse granules.

This enhancement did not impact the usage of the BMGT. Reference Bulk Metadata and Browse Export Capability white paper, 170-WP-023-006 dated 11/2002, for BMGT usage information.

4.11.12.1 Invoking the Bulk Metadata Generation Tool Utility

The EcOsBulkURL Utility can be invoked in two ways.

1. By entering the following command from the /usr/ecs/<mode>/CUSTOM/utilities directory:

> **EcOsBulkURLStart *mode* Insert**

This command is run, to generate the ECS related ftp URLs in the Datapool database for the time range specified in the EcOsBulkURLConfigParams.xml file. This generates the URLs for the products that have been already exported by the BMGT. The generated products are placed in the /datapool/<MODE>/user/URLExport directory, which is available for access by ECHO.

2. By invoking the Datapool Cleanup Script:

a) > EcDICleanupDataPool.pl <MODE>

- EcDICleanupDataPool.pl is a cleanup script, which deletes granules that have expired, from the Datapool database. This script automatically invokes the EcOsBulkURLStart script in Delete mode. The EcOsBulkURLStart script then generates the products, which have been deleted from the Datapool database, whose ftp URLs have been previously exported at some point in time.

Table 4.11.12-1 provides a description of these parameters.

Table 4.11.12-1. Bulk Metadata Generation Tool Command Line Parameters

Parameter Name	Description
<i>mode</i>	An input parameter specifying the mode of operation. This must be the first parameter on the command line, and it must be a valid, existing Data Pool mode (i.e., OPS, TS1, or TS2).
Insert	Indicates the ftp URL inserted into the Datapool database is made available to ECHO.

4.11.12.2 NetWorker Main Screen

The Bulk Metadata Generation tool utility has no main screen. It has a command line interface only.

4.11.12.3 Required Operating Environment

The EcOsBulkURL Utility runs on Sun platforms.

4.11.12.4 Databases

Table 4.11.12-2 lists the supporting products that this tool depends upon to function properly.

Table 4.11.12-2. Bulk Metadata Generation Tool Interface Protocols

Product Dependency	Protocols Used	Comments
Data Pool database	SQL	Via SQL server machines.
Java	lre	Requires proper installation of base-lined version of lre.
JDBC	lconnect	Requires proper installation of base-lined version of JDBC.
Jaxp	Jaxp1.0.1	Requires proper installation of base-lined version of Jaxp1.0.1.

If a Sybase error occurs, you are most likely to see the actual Sybase error string displayed on the screen and in the log. Some errors are the database server is unavailable, the connection to the database was dropped, or there was an error executing the stored procedure. In the event of a Sybase-sourced error, the utility immediately stops running.

4.11.12.4.1 Configuration File Format – EcBulkURLConfigParams.cfg.

The “config” file contains vital details about how to connect to the Sybase database, what the time range for the run is, where the output files should be placed, etc. Without this file, the utility cannot run. The configuration file is an xml file. Table 4.11.12-3 describes the elements contained in the Bulk URL configuration file.

Description of the individual elements in the configuration file that operators may want to set:

Table 4.11.12.-3. Bulk Metadata Generation Tool Configuration File Elements

Element Name	Description
doPreviousFlag	Set to "true", if operators need to run previous the utility for previous day or hour or "false" if the utility is to be run for a date range.
duration	This can be either "day" or "hour." This is only effective when doPreviousFlag is set to "true."
count	Set it for the duration that the run is needed. This is only effective when doPreviousFlag is set to "true."
programId	Program ID used for connecting to the Data Pool database.
startDate	The start date for the period for which the utility is to be run. This is only effective if doPreviousFlag is set to "false."
endDate	The end date for the period for which the utility is to be run. This is only effective if doPreviousFlag is set to "false."

4.11.12.5 Special Constraints

The EcOsBulkURL Utility runs only if the Data Pool and database servers are up and available. The stored procedures it uses must also be present in the Data Pool database.

4.11.12.6 Outputs

Output files generated are placed in the directory mentioned in the EcOsBulkURLParams.cfg file. Usually, it is as follows:

```
/datapool/<MODE>/user/ URLExport
```

4.11.12.7 Event and Error Messages

Events and error messages are written to the log file. A usage message is displayed to the screen when command-line parameters are incorrectly specified.

The utility produces log files called EcOsBulkURL.ALLOG and EcOsBulkURLDebug.log in the /usr/ecs/<mode>/CUSTOM/logs directory. A new log file with this name is automatically created, and the old log files are renamed with a timestamp.

4.11.12.8 Reports

There are no reports generated by the Bulk Metadata Generation Tool utility.

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4.11.13 HEG Data Pool Order Status GUI

The web-based HDF-EOS to GeoTIF Converter (HEG) Data Pool Order Status GUI is provided to assist DAAC operators in tracking and controlling HEG orders. This GUI provides a very simple set of screens that allow for the following functionality:

- Start/stop the HEG Front End
- Change processing queue configuration and server process settings
- Change the state of an order or an order item

4.11.13.1 Quick Start Using the HEG Data Pool Order Status GUI

Bring up the Web Browser and then access the Universal Resource Locator (URL) for the Order Status user interface (the URL is <webaccess_host>:<port>/<mode>/order). This brings the operator directly into the Queue control screen.

4.11.13.1.1 Queue Control Screen

The Queue Control screen (Figure 4.11.13-1) contains the following:

- HEG Front End Server:
 - Status: UP or DOWN
 - Control 1: ‘Exit Gracefully’: waits for all children (actual converter processes) to finish processing before exiting. This control is a form submit and as such does not need an ‘Apply’ to activate it
 - Control 2: ‘Exit Immediately (No Cleanup)’: kills all children without waiting for processing completion and then immediately exits. This control is also a form submit and as such does not need an ‘Apply’ to activate it
- HEG Front End Processing State: Either process orders in the order queue or do not. The order queue is the DICartOrder table in the database.
- Maximum Number of HEG Converter Processes: Sets the limit for concurrently running converter processes. Reaching the limit just means that orders in the queue wait longer to start processing (they wait for the next available converter process slot).
- Maximum Order Queue Size: Sets the maximum number of orders the order queue holds. Once the limit is reached, users receive a message when attempting to place an order that tells them the order queue is full and to try again later.
- Maximum Packaging Processes: REMOVED FOR DELIVERY VERSION OF CODE.

Unless otherwise noted, the operator adjusts/changes the values by entering a new value in the input box. The operator must click on the **Apply Changes** button to initiate the changes. The operator can click on **Reset** to restore initial values if the changes have not been initiated.

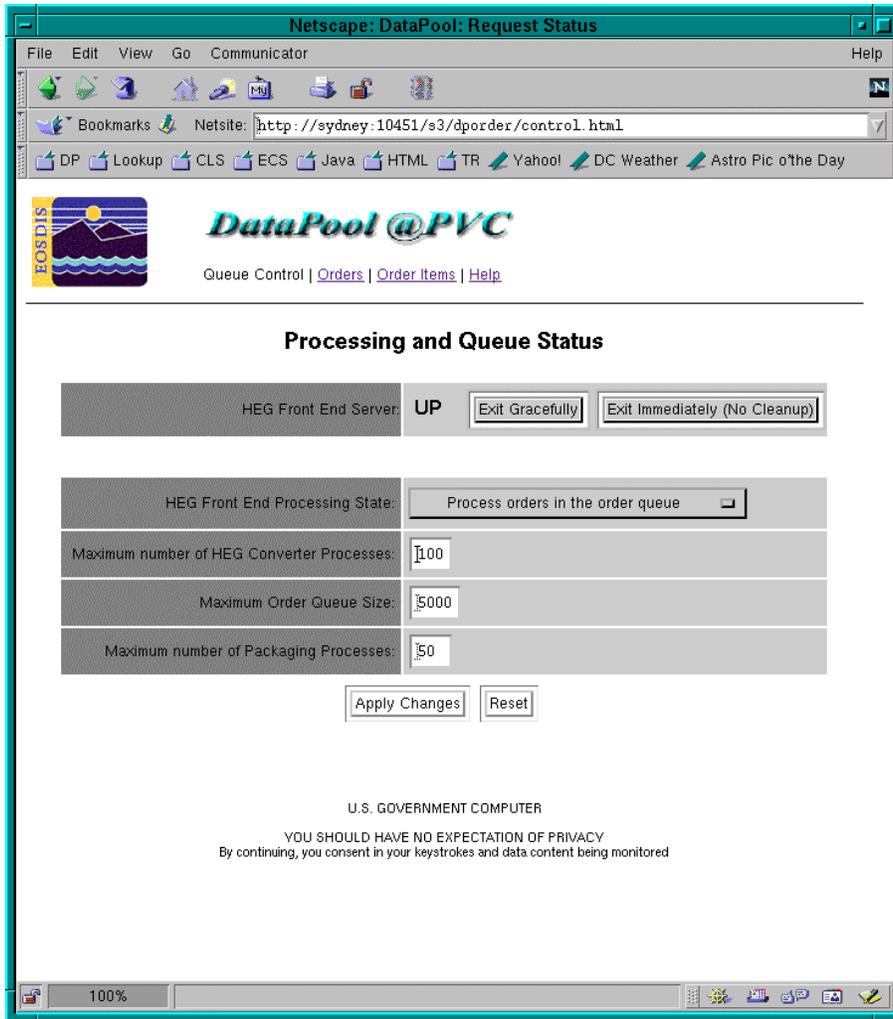


Figure 4.11.13-1. HEG Front-end Queue Control

4.11.13.1.2 Order Status Screen

The Order Status screen, Figure 4.11.13-2 shows the orders that are currently within the queue. Orders may be sorted and filtered by the controls indicated on the screen. Clicking on the Order ID link will display the order items (granules) associated with the selected order. Order details (a dump of what is in DICartOrder for the selected Order ID) may be viewed by selecting the magnifier icon next to the Order ID link.

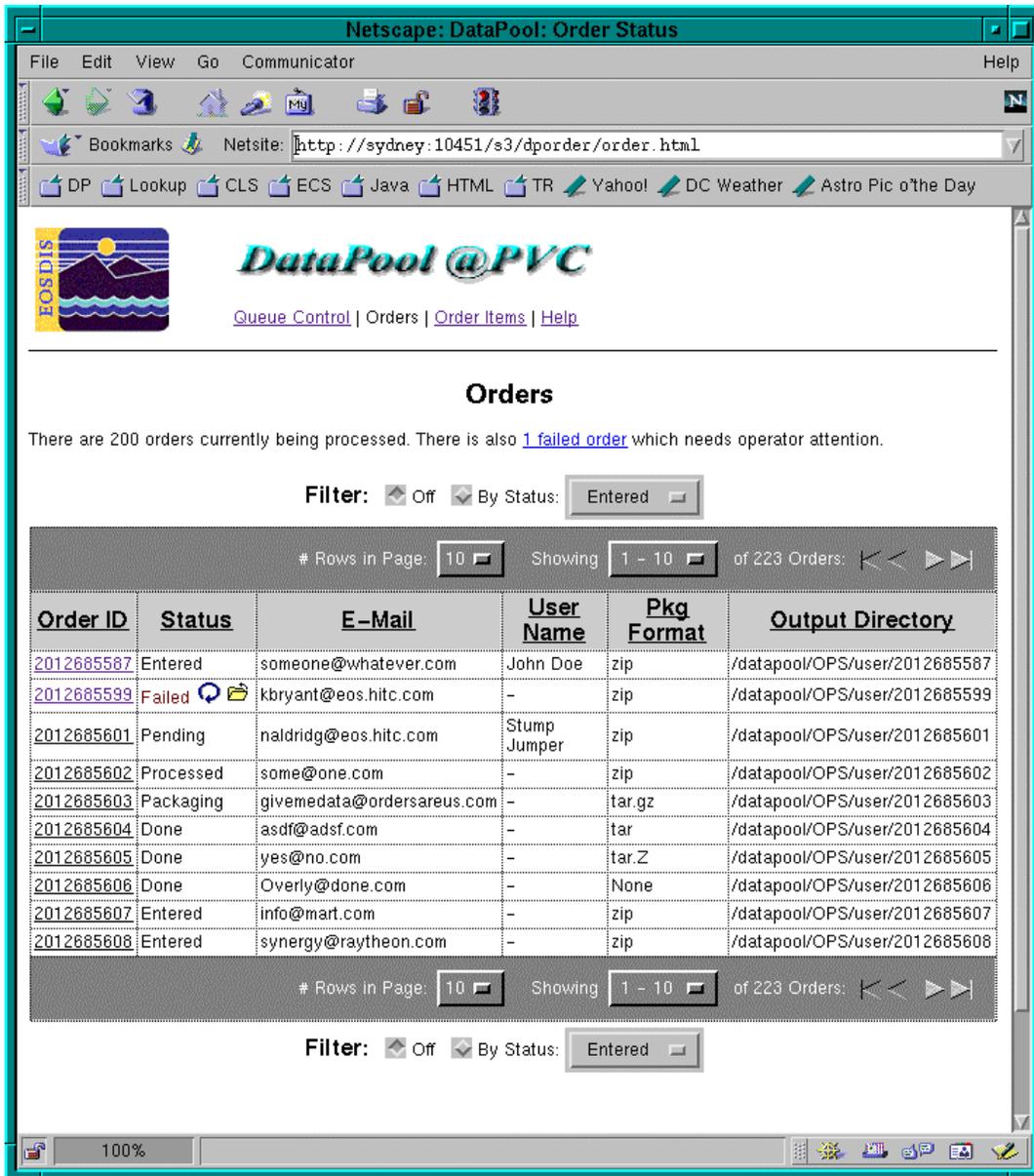


Figure 4.11.13-2. Order Status Screen

4.11.13.1.3 Order Item Status Screens

The Order Item Status screen, Figure 4.11.13-3, shows the individual order items and their current status. Order items can be sorted and filtered by the controls displayed on the screen. Order item details (a dump of what is in DICartOrderItem for the selected Item ID) can be viewed by clicking on the magnifier icon next to the Item ID link (see Figure 4.11.13-4).

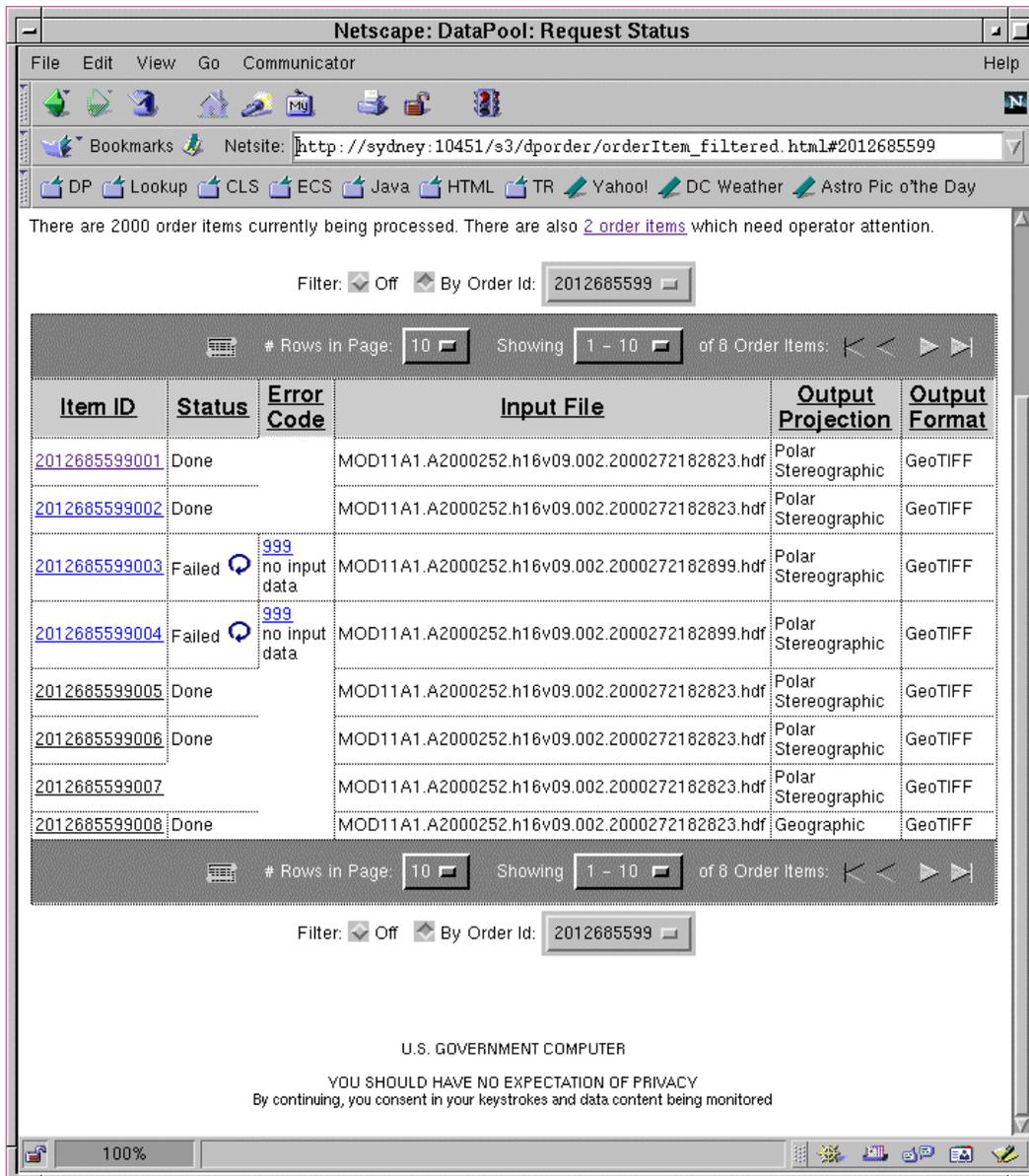


Figure 4.11.13-3. Order Item Status Screen

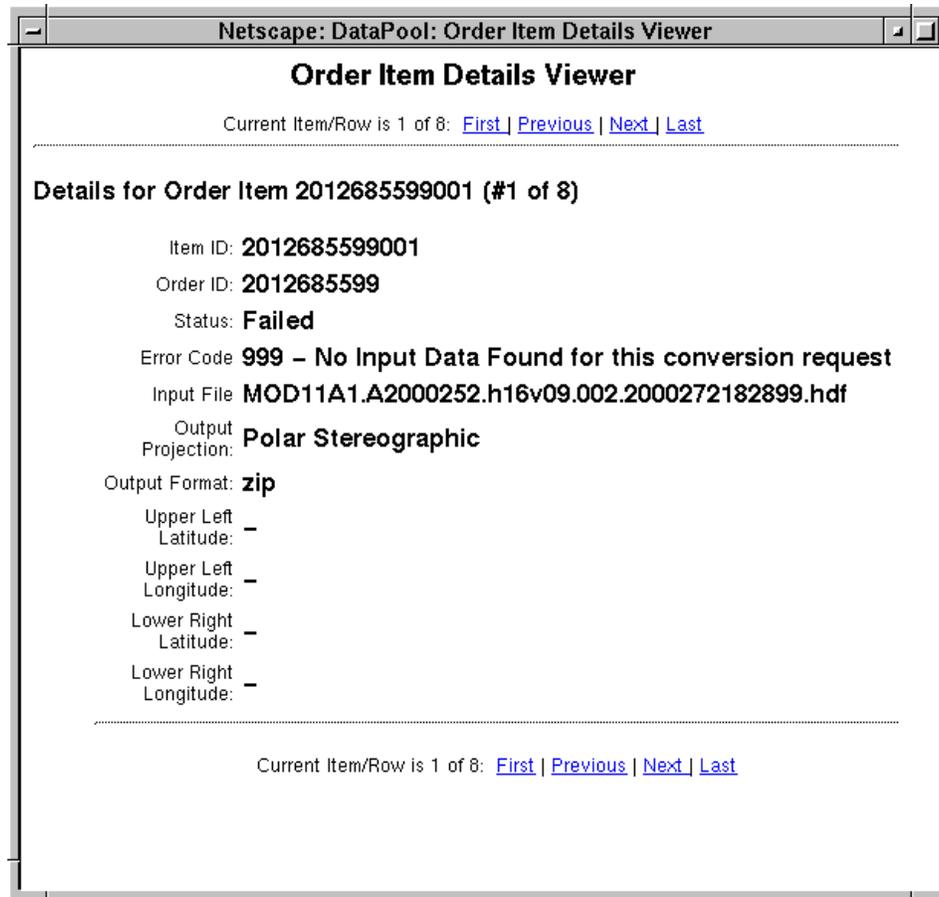


Figure 4.11.13-4. Order Item Details

4.11.13.2 HEG Data Pool Order Status Main Screen

See sub-section 4.11.13.1.1.

4.11.13.3 Required Operating Environment

The following environment is required for the GUI to work properly.
The O/S requirements are Solaris 2.5.1 or better.

4.11.13.4 Databases

The GUI accesses the DataPool databases.

4.11.13.5 Special Constraints

There are no special constraints to running the GUI.

4.11.13.6 Outputs

There are no outputs from the GUI, except for status and error messages.

4.11.13.7 Event and Error Messages

The GUI writes status and error messages to the EcDIHEGFrontEnd.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.11.13.8 Reports

The GUI does not generate reports.

4.11.14 Data Pool Maintenance GUI

The DPM GUI provides an operator interface to monitor the current status of Data Pool Inserts and to maintain specific Data Pool parameters. This GUI manages ECS and Non-ECS data collections. Specifically, the DPM GUI provides the following capabilities:

- Monitor the active insert processes
- Monitor the Data Pool Insert Queue
- Manage existing Data Pool Collection Groups
- Add new Data Pool Collection Groups (includes ECS and Non-ECS)
- Manage existing Data Pool Collection Themes
- Add new Data Pool Collection Themes
- Suspend and Resume Data Pool Inserts
- Turn the NoFreeSpace Flag on or off
- Configure parameters used by the Data Pool Action Driver (DPAD) and the Data Pool Insert Utility (DPIU)

4.11.14.1 Quick Start Using the Data Pool Maintenance GUI

Bring up the Web Browser and then access the URL for the DPM GUI web page.

For example, <http://f3ins01.hitc.com:22111/DataPool.html>

4.11.14.1.1 DPM Home Page

The DPM Home Page screen shown in Figure 4.11.14-1 gives the operator the current status of Data Pool Inserts. The screen is refreshed automatically. The operator is shown the current screen refresh rate, the current status of the NoFreeSpaceFlag, the current status of the Data Pool Insert actions, the configured number of Allowed Insert Processes, the configured number of Allowed Processes from AMASS cache, the configured number of Allowed Processes from AMASS tape, the total number of active insert processes running, the number of active insert processes using AMASS cache, the number of active insert processes using AMASS tape and the current status of the active insert processes. The operator can adjust the value for the Screen Refresh Rate by entering a new value in the input box, turn the NoFreeSpaceFlag on or off and Suspend or Resume Data Pool Inserts by clicking on the appropriate radio button. The operator must click on the adjacent **Apply** button to initiate changes. Clicking on the **Refresh** link immediately refreshes the screen. Use the tab buttons at the top to navigate to the Batch Summary, List Insert Queue, Manage Configuration Parameters, Manage Collection Groups, Manage Themes and Help screens. The field descriptions for the DPM home page are included in Table 4.11.14-1.

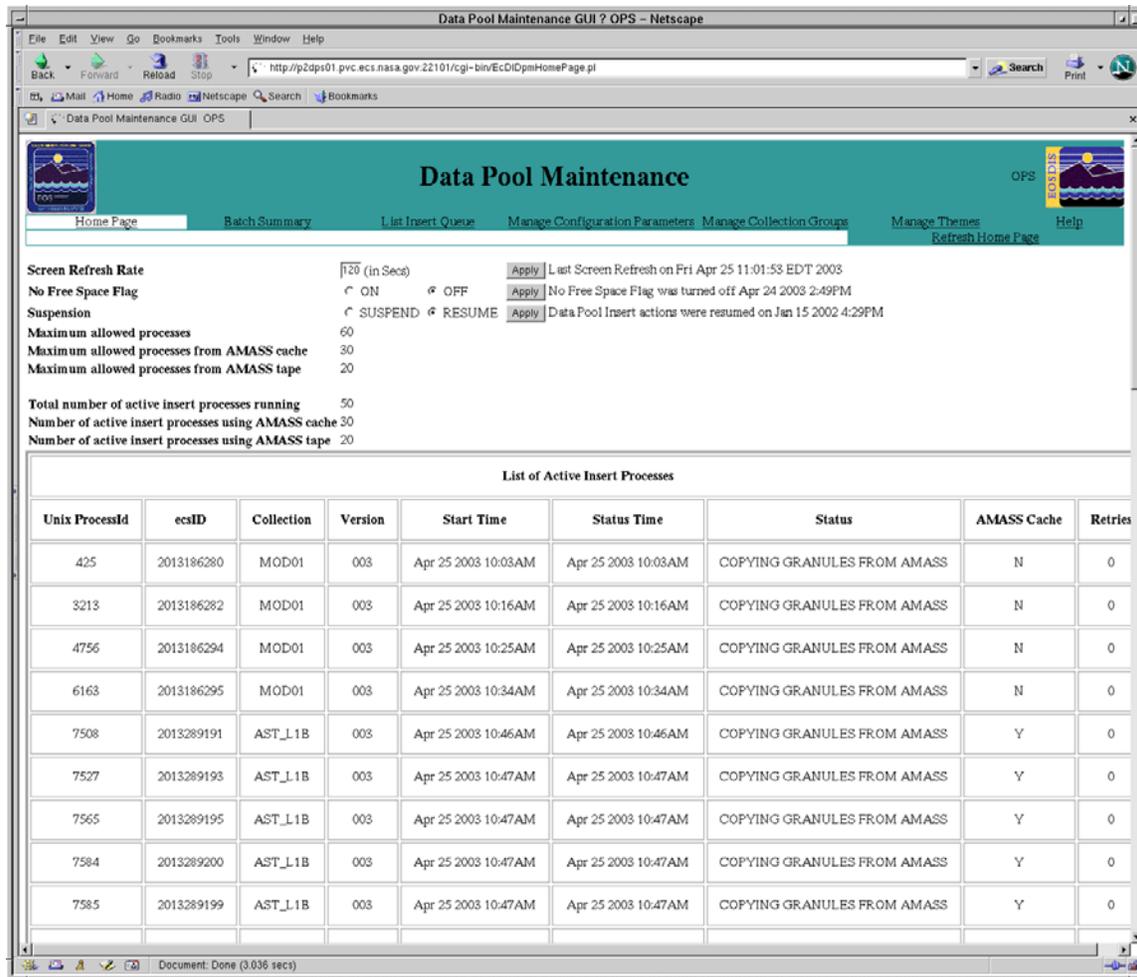


Figure 4.11.14-1. Data Pool Maintenance Home Page.

Table 4.11.14-1. DPM Home Page Field Descriptions

Field Name	Data Type	Size	Entry	Description
Screen Refresh Rate	Integer	4	Optional	Allows the operator to adjust the Screen Refresh Rate in seconds.

4.11.14.1.2 Batch Summary

The Batch Summary screen shown in Figure 4.11.14-2 displays a summary of the status of Data Pool inserts for each batch label. Status includes pending, complete and failed inserts.

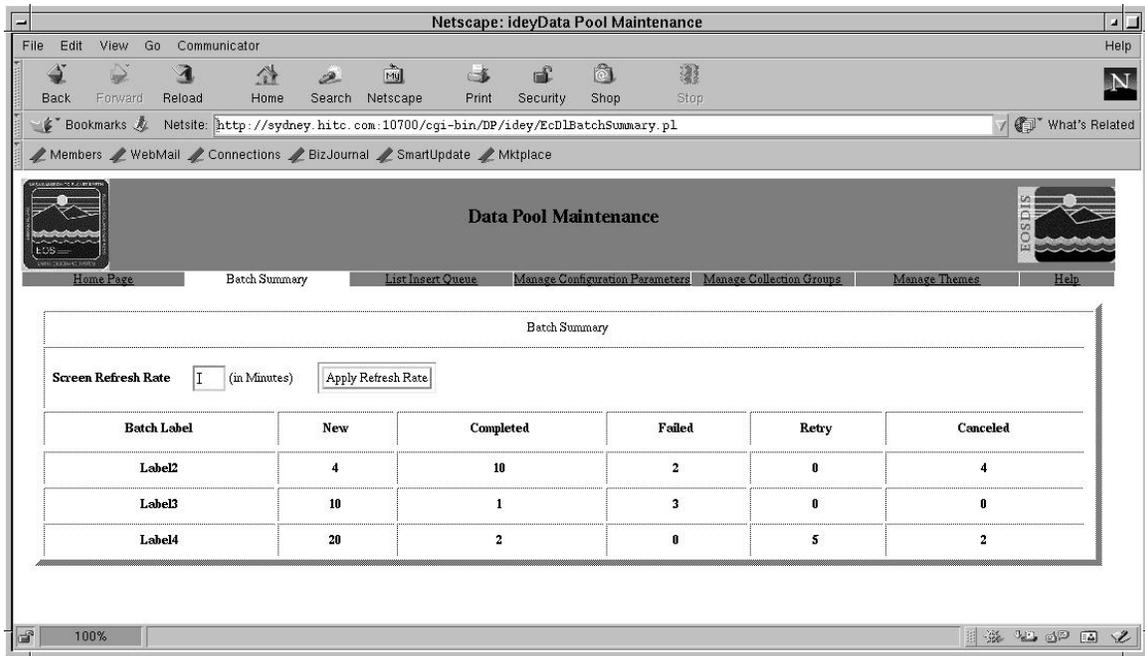


Figure 4.11.14-2. Batch Summary Screen

4.11.14.1.3 List Insert Queue Tab

The List Insert Queue screen shown in Figure 4.11.14-3 allows the operator to monitor the Data Pool Inserts still needing to be processed or retried. The operator can cancel Inserts that are in the Insert Queue by clicking on the checkbox adjacent to the InsertQueueID. After selecting all desired inserts, click on the **Apply Change** button to initiate changes. The Inserts are marked as “CANCELED” in the Data Pool database. The List Insert Queue screen is refreshed with only inserts left to be processed. The DPAD driver cleans up all canceled inserts at a configured interval. The List Insert Queue Screen can be filtered using the Batch Labels drop down list and Status drop down list. Clicking on the Batch Labels drop down list displays all the batch labels in the database. The operator can choose one label and choose "ALL" from the Status drop down list to view all the insert statuses for that label. The operator can also narrow down the list by choosing a specific status from the Status drop down list. The Insert Queue list can also be filtered by Status. For example, the operator can choose "Completed" from the Status drop down and "ALL" from the Batch Label drop down list, which shows all the completed inserts for each batch label. Click on the **Apply Filter** button to display a filtered list after selecting the filter options. XML file and path name for a Non-ECS granule insert action can be viewed by clicking on "NONECS" from the Data Source column. The xml file path is displayed in Figure 4.11.14-4. The content of the xml file can be viewed by clicking on the file path. This displays the text of the file as shown in Figure 4.11.14-5.

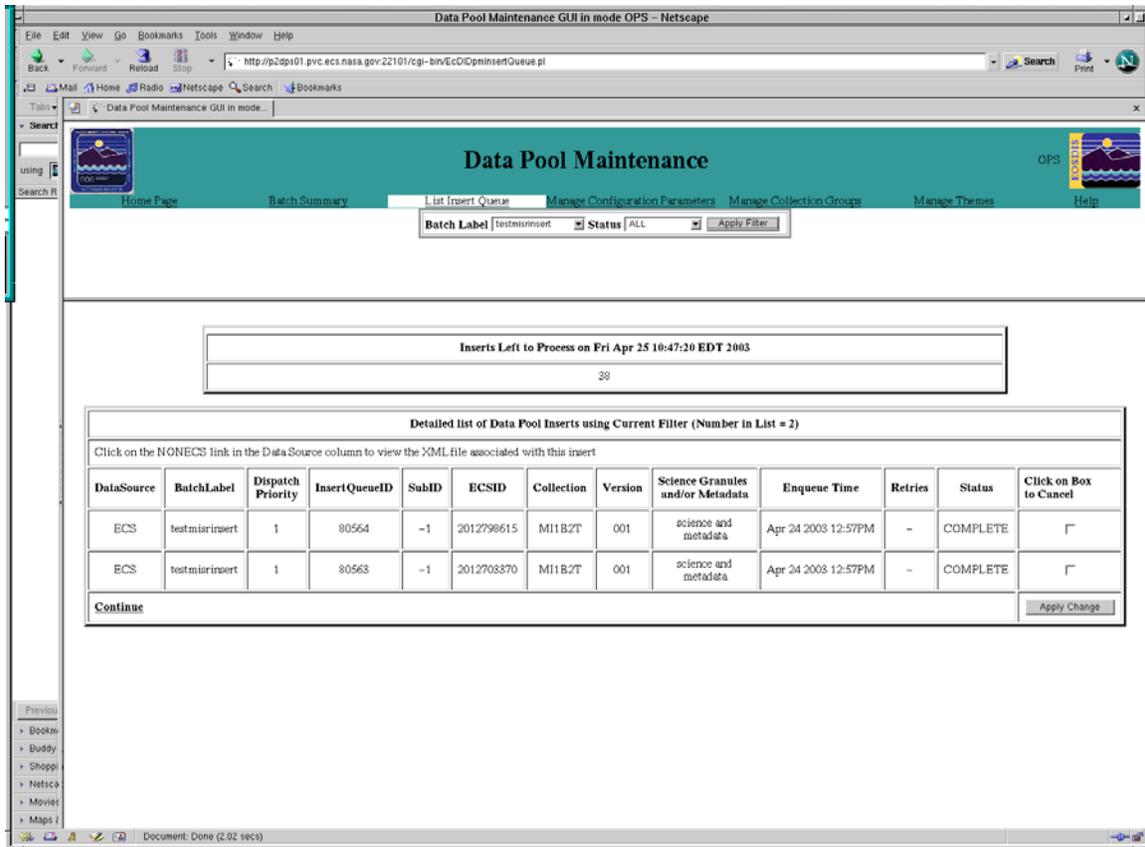


Figure 4.11.14-3. List Insert Queue Screen

Note: This screen depicts total number of Data Pool Inserts left to process and be retried. It also displays a detailed list of Data Pool Inserts using current filter and total number of rows in database. The default filter is set to ignore for Batch Label and NEW/RETRY for Status.

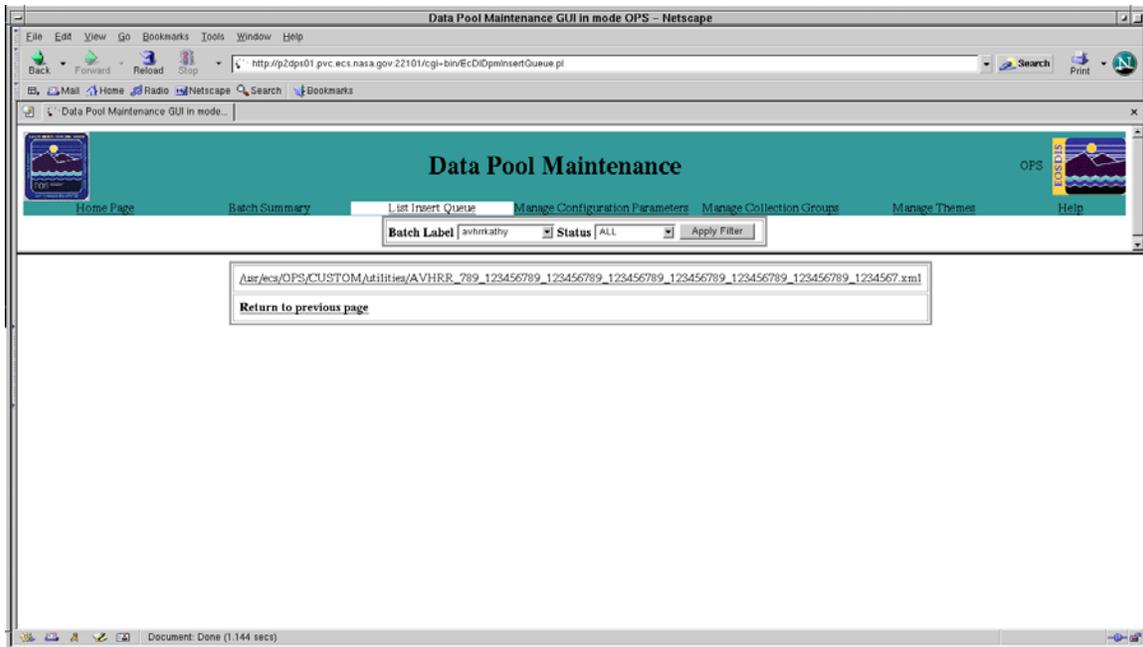


Figure 4.11.14-4. List Insert Queue Screen - Absolute xml File Path

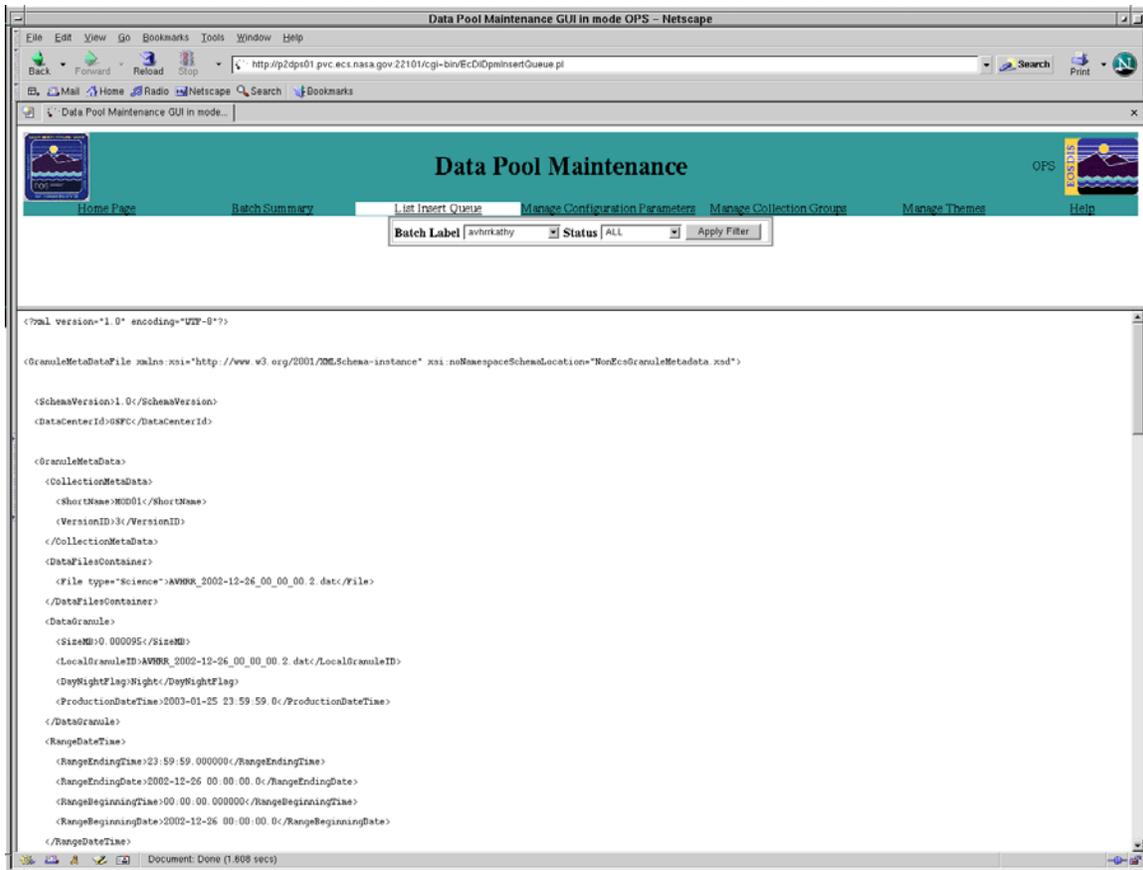


Figure 4.11.14-5. List Insert Queue Screen - xml File Content

4.11.14.1.4 Manage Configuration Parameters Tab

The Manage Configuration Parameters screen shown in Figure 4.11.14-6 allows the operator to display the current values for the Data Pool Configuration Parameters. The operator can adjust the values for the parameters by entering new values in the input box. After making all changes, click on the checkbox adjacent to the configuration parameters. Click on the **Apply Change** button (at the bottom, not visible in the figure) to initiate the changes. See Table 4.11.14-2 for a description of the configuration parameters.

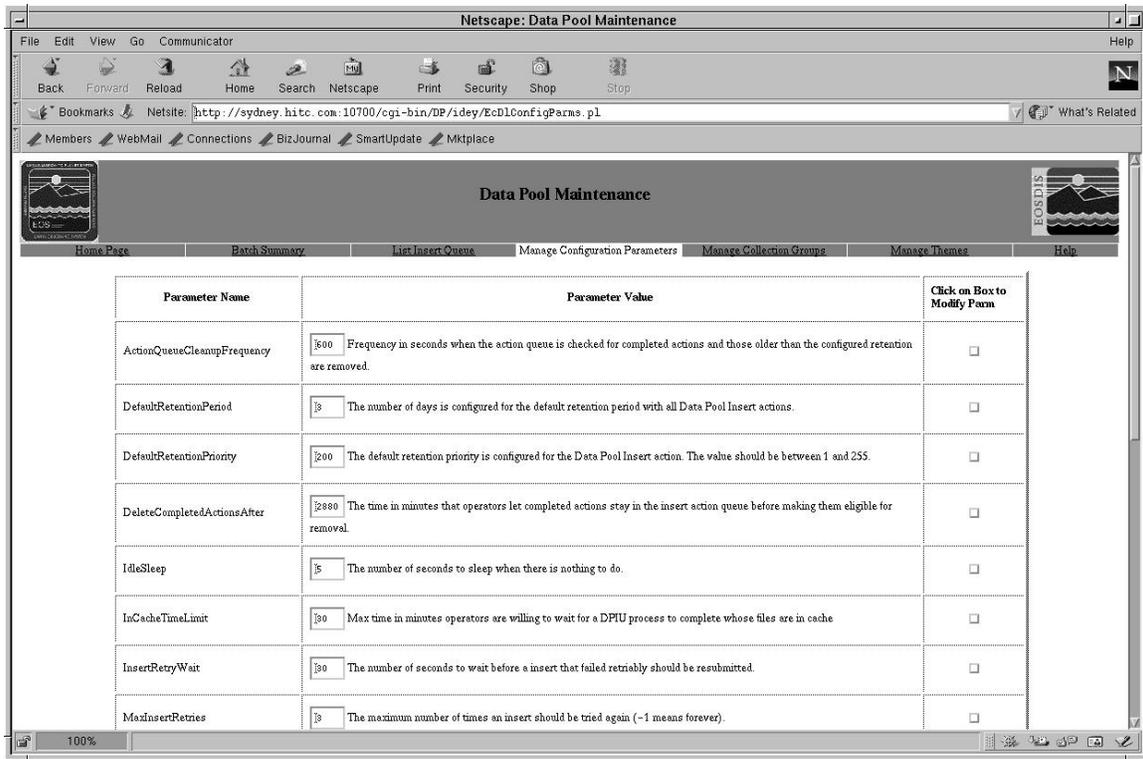


Figure 4.11.14-6. Data Pool Configuration Parameters (View or Update)

Table 4.11.14-2. Manage Configuration Parameters Field Description (1 of 3)

Field Name	Data Type	Size	Entry	Description
ActionQueueFrontRefreshFrequency	Integer	4	Optional	The frequency in seconds when the action queue front is refreshed.
BatchSummaryAutoRefresh	Integer	4	Optional	The frequency in minutes when the batch summary front is refreshed
ChunkSizeInsertQueue	Integer	4	Optional	The default chunk size to retrieve data from the database is set to 100.
DefaultRetentionPeriod	Integer	4	Optional	The default retention period in days for all Data Pool Insert Actions.
DefaultRetentionPriority	Integer	4	Optional	The default retention priority for all Data Pool Insert actions. The valid range is 1 – 255.

Table 4.11.14-2. Manage Configuration Parameters Field Description (2 of 3)

Field Name	Data Type	Size	Entry	Description
DeleteCompleteActionsAfter	Integer	4	Optional	The time in minutes that operators let completed actions stay in the insert action queue before making them eligible for removal. This is intended to provide the operator with some capability to check on past actions. The time period should not be configured too long.
IdleSleep	Integer	4	Optional	The number of seconds when there is nothing to do.
InCacheTimeLimit	Integer	4	Optional	The max time in minutes that operators are willing to wait for a DPIU process to complete whose files are in cache. After the time, DPAD kills the process and retries the action.
InsertRetryWait	Integer	4	Optional	The number of seconds to wait before an insert that failed should be resubmitted.
MaxInsertRetries	Integer	4	Optional	The maximum number of times an insert should be tried again (-1 means forever).
NewActionCheckFrequency	Integer	4	Optional	The frequency in seconds for checking for new actions. DPAD always checks if we are out of actions that can be dispatched, so unless getting things queued up in memory is urgent, this could be a time interval of minutes.
NumOfAllowedCacheProcesses	Integer	4	Optional	The maximum number of insert processes not requiring AMASS access to cache.
NumOfAllowedInsertProcesses	Integer	4	Optional	The maximum number of insert processes running at any time.
NumOfAllowedNonCacheProcesses	Integer	4	Optional	The maximum number of insert processes requiring AMASS access in cache.

Table 4.11.14-2. Manage Configuration Parameters Field Description (3 of 3)

Field Name	Data Type	Size	Entry	Description
OnTapeTimeLimit	Integer	4	Optional	The maximum time in hours operators are willing to wait for a DPIU process to complete whose files are not in cache. After that time, DPAD kills the process and retries the action.
RefreshRate	Integer	4	Optional	The DPM Home Page refresh rate in seconds.
RunAwayCheckFrequency	Integer	4	Optional	The frequency in seconds for checking for runaway processes. Recommend not making it much smaller than InCacheTimeLimit.
StartUpWait	Integer	4	Optional	The number of seconds to delay start-up while trying to clean out left over DPIU processes.
SizeOfInsertQueueList	Integer	4	Optional	The number of Data Pool Insert Queue entries that can be displayed at any one time by the DPM GUI.

4.11.14.1.5 Manage Collection Groups tab

The Manage Collection Groups screen shown in Figure 4.11.14-7 allows the operator to view collection groups in the Data Pool database and navigate to the functions described in Sections 4.11.14.1.5.1 thru 4.11.14.1.5.6.

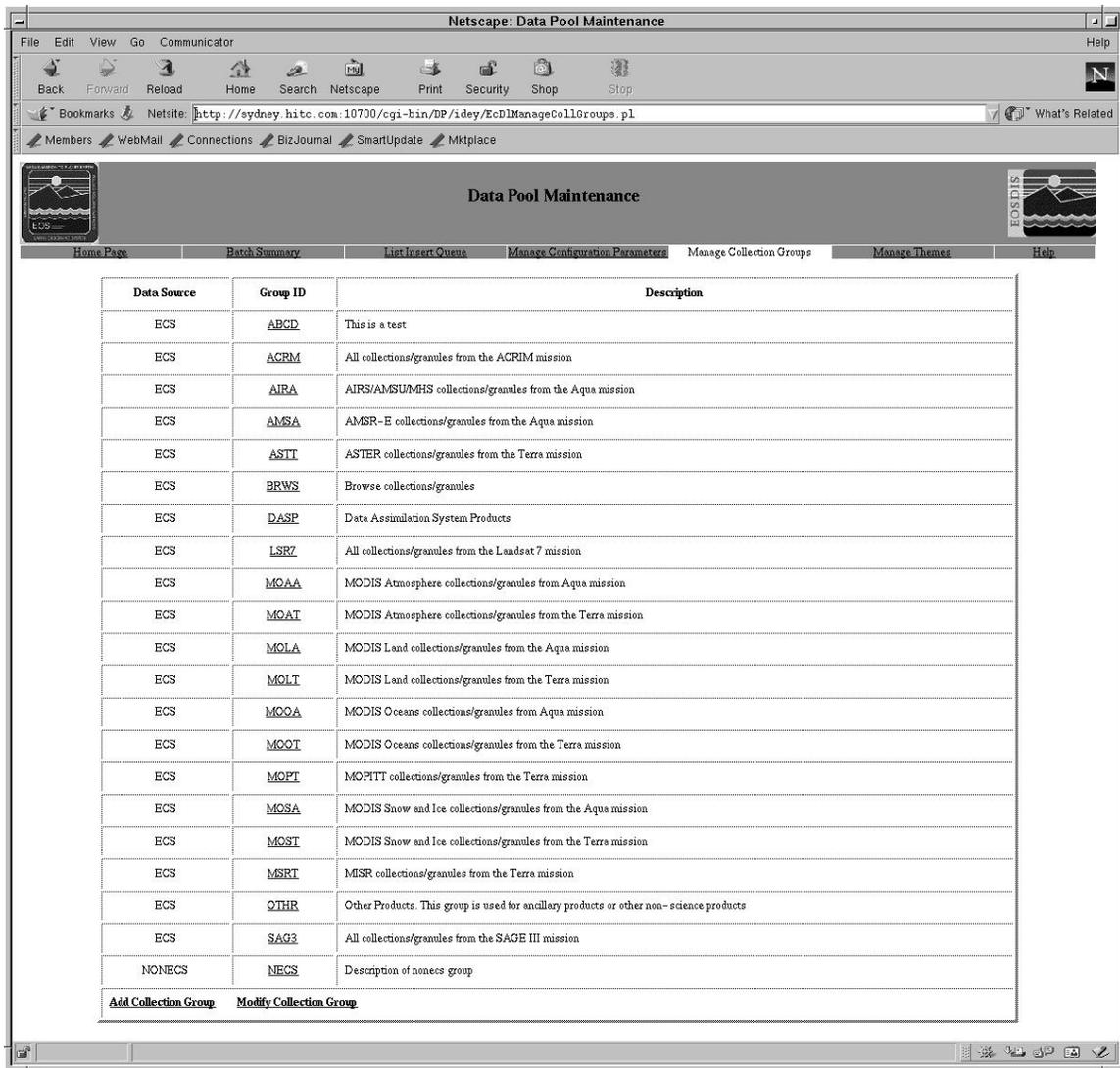


Figure 4.11.14-7. List of Collection Groups Currently in the Data Pool

4.11.14.1.5.1 Add New Collection Group

The operator can add a new ECS or Non-ECS collection group by clicking on the **Add Collection Group** link shown in Figure 4.11.14-7. This link takes the operator to the screen shown in Figure 4.11.14-8. Click on the **Apply Change** button after entering the new collection group. The new collection group is added to the Data Pool database and the List of Collection Groups screen is refreshed. See Table 4.11.14-3 for the Add Collection Group field descriptions.

Caution:

The Add Collection Group function is to be exercised judiciously because the DPM GUI does not provide any means of deleting collection groups.

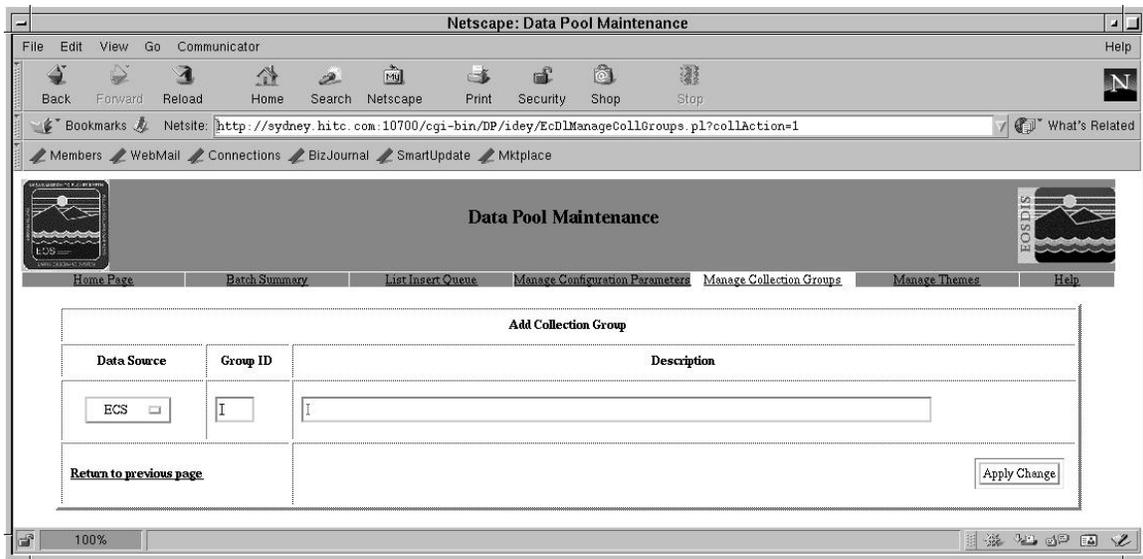


Figure 4.11.14-8. Add Collection Group Screen

Table 4.11.14-3. Add Collection Group Field Description

Field Name	Data Type	Size	Entry	Description
Data Source	Character	6	Mandatory	To describe the source of the data whether ECS or NONECS.
Group ID	Character	4	Mandatory	A four-letter identifier (all upper case) of the group.
Description	Character	100	Mandatory	A description for the collection group. It is scrollable up to 255 characters.

4.11.14.1.5.2 Modify Collection Group Description

The operator can modify the description for a collection group by clicking on the **Modify Collection Group** link shown in Figure 4.11.14-7. This link takes the operator to the screen shown in Figure 4.11.14-9. The operator can modify the description for a collection group. 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 are applied to the Data Pool database and the List of Collection Groups screen is refreshed. Table 4.11.14-4 provides the contents of the description area of the screen.

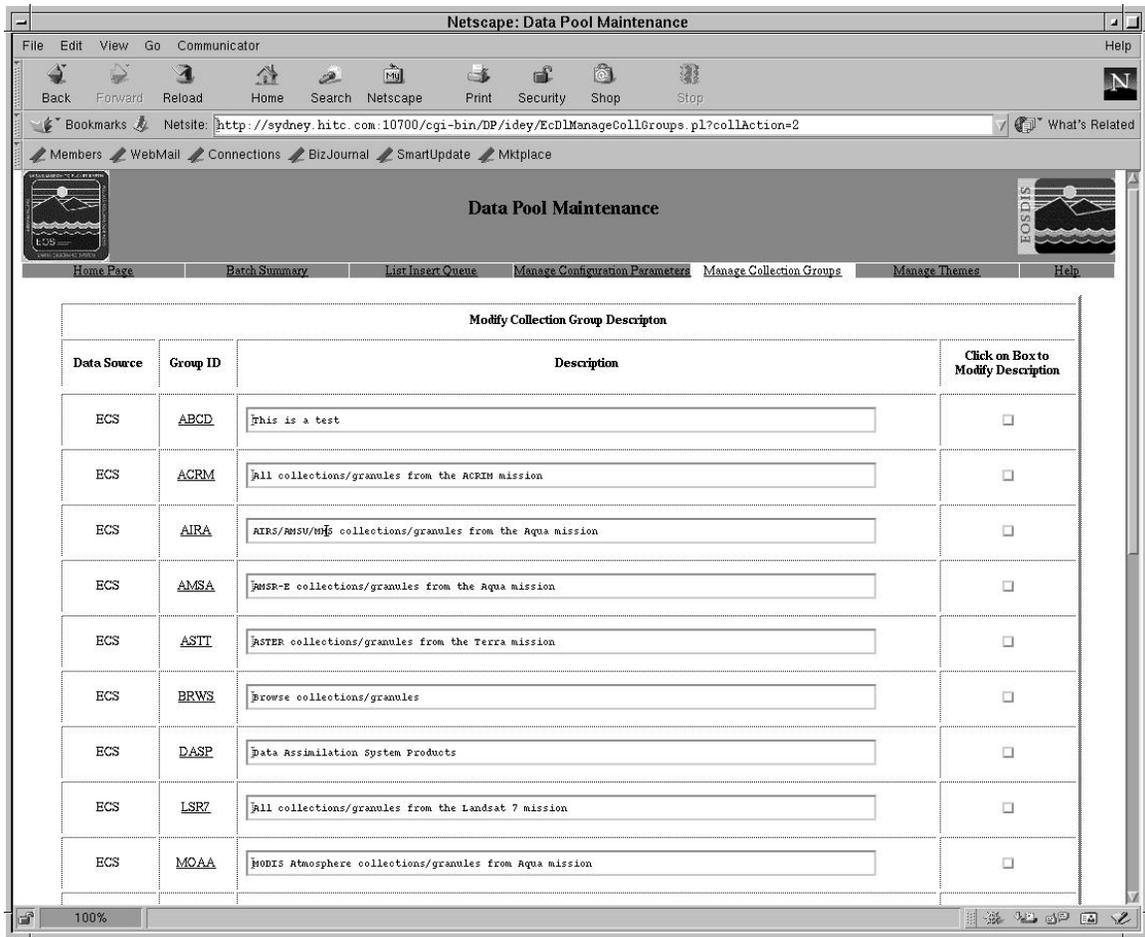


Figure 4.11.14-9. Modify Collection Group Screen

Table 4.11.14-4. Modify Collection Group Field Description

Field Name	Data Type	Size	Entry	Description
Description	Character	100	Optional	A description for the collection group. It is scrollable up to 255 characters.

4.11.14.1.5.3 View Collections Within a Group

The operator can view the collections associated with a collection group by clicking on the **GroupId** link shown in Figure 4.11.14-9. Depending on whether the collection group is an ECS or NONECS, this link takes the operator to the List Collections screen shown in Figure 4.11.14-10 for the ECS Collection Group or to Figure 4.11.14-11 for the NONECS collection group.

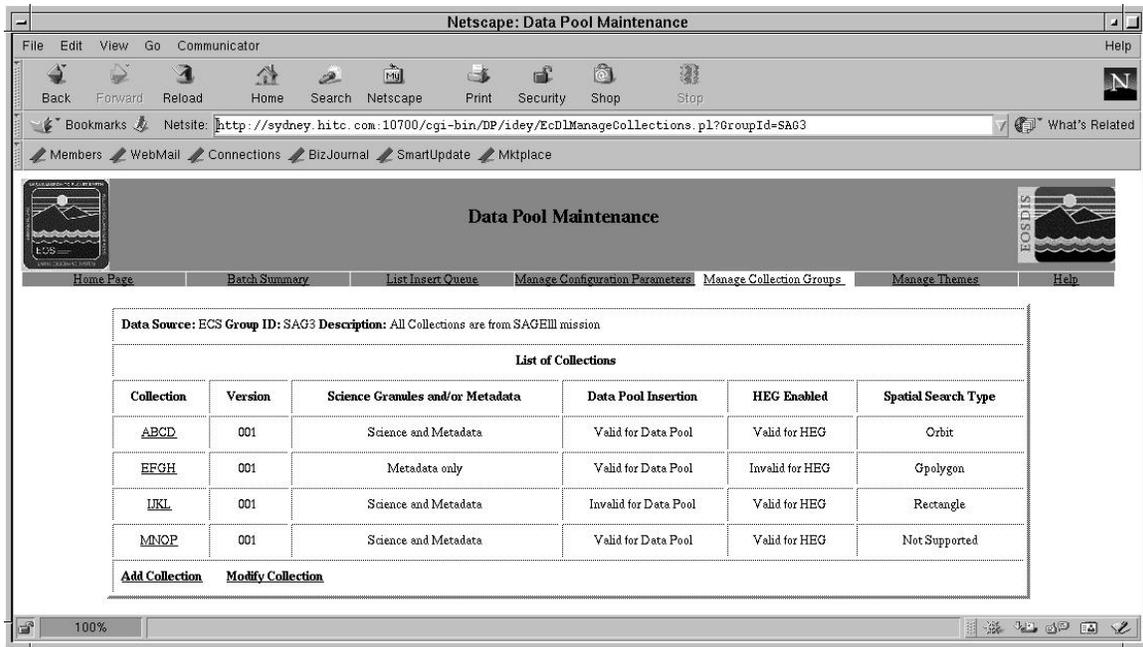


Figure 4.11.14-10. Collections Associated with an ECS Collection Group

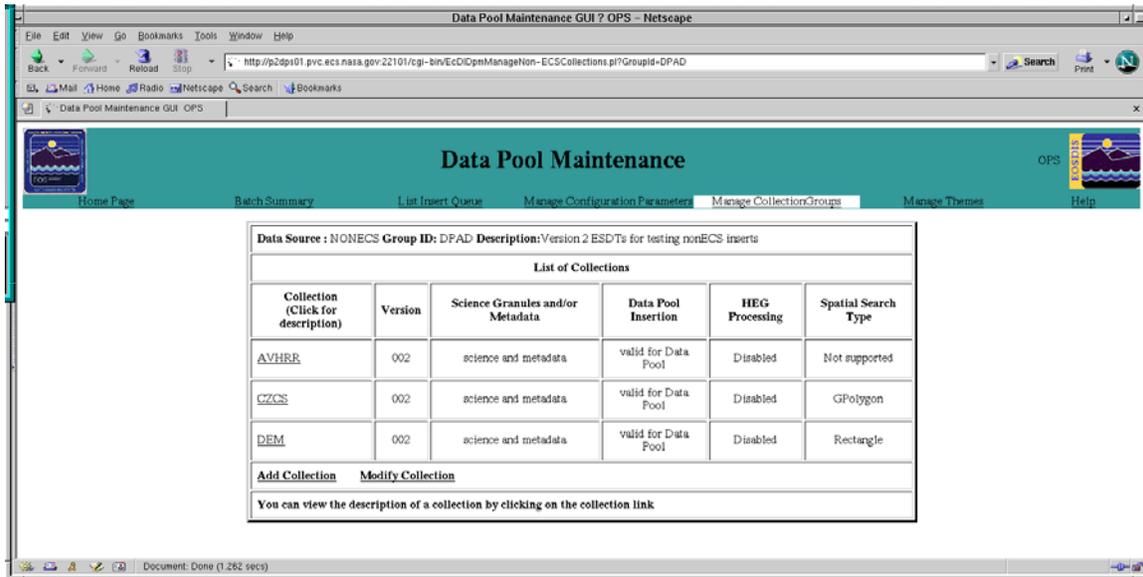


Figure 4.11.14-11. Collections Associated with a Non-ECS Collection Group

4.11.14.1.5.4 View Collection Description

The operator can view the description for a collection by clicking on the **Collection** link shown in Figure 4.11.14-10 and Figure 4.11.14-11. This link takes the operator to the description screen shown in Figure 4.11.14-12.

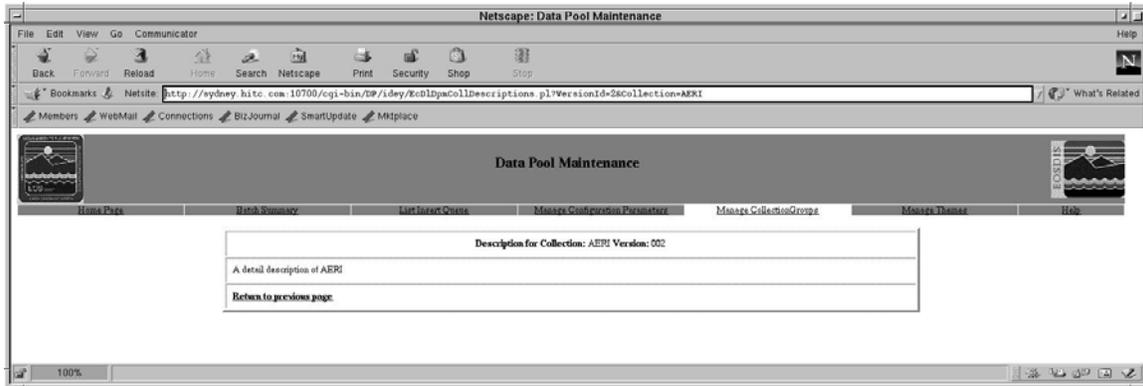


Figure 4.11.14-12. Description of a Collection

4.11.14.1.5.5 Add New Collection to Existing Collection Group

The operator can add new collections to an existing ECS or non-ECS collection group. The operator can add an ECS collection to an ECS collection group by using the link shown in Figure 4.11.14-10. This link takes the operator to the Add Collections screen shown in Figure 4.11.14-12. (The collections listed are not associated with any collection groups in the Data Pool database.) The Science Granules and/or Metadata column indicates if the collection is valid for science granule and metadata insertion or metadata only. The default value is science and metadata insertion. The operator can set the column value to Metadata Only to indicate Metadata insertion only. The Data Pool Insertion column indicates if the collection is eligible for insertion into Data Pool. The default value is invalid for data pool. The operator must set the column value to valid for data pool to make the collection eligible for insertion into Data Pool. The operator can choose from a list of existing collections and add to the group by choosing the adjacent check box and clicking on the **Apply Change** button. The changes are applied to the Data Pool database and the List of Collections screen is refreshed.

The operator can add a non-ECS collection to a non-ECS collection group by using the link shown in Figure 4.11.14-11. This link takes the operator to the Add Collections screen shown in Figure 4.11.14-13. The operator needs to enter a collection name and a version number in the text area provided. Table 4.11.14-5 defines the field description entries. The operator can also set the values for Science Granule and/or Metadata and Insert Enabled and Spatial Search Type columns. Defaults are provided to all columns. Default for Science Granule and/or Metadata is Science and Metadata. Default for Insert Enabled columns is "Invalid for data pool." There are four options for Spatial Search Type: "Orbit", "Gpolygon", "Rectangle", and "Not supported." The operator can set the value by choosing one of them or "Not Supported" is set as default.

After making all the selections, the operator needs to click on the **Apply Change** button. The changes are applied to the Data Pool database and the List of Collections screen is refreshed.

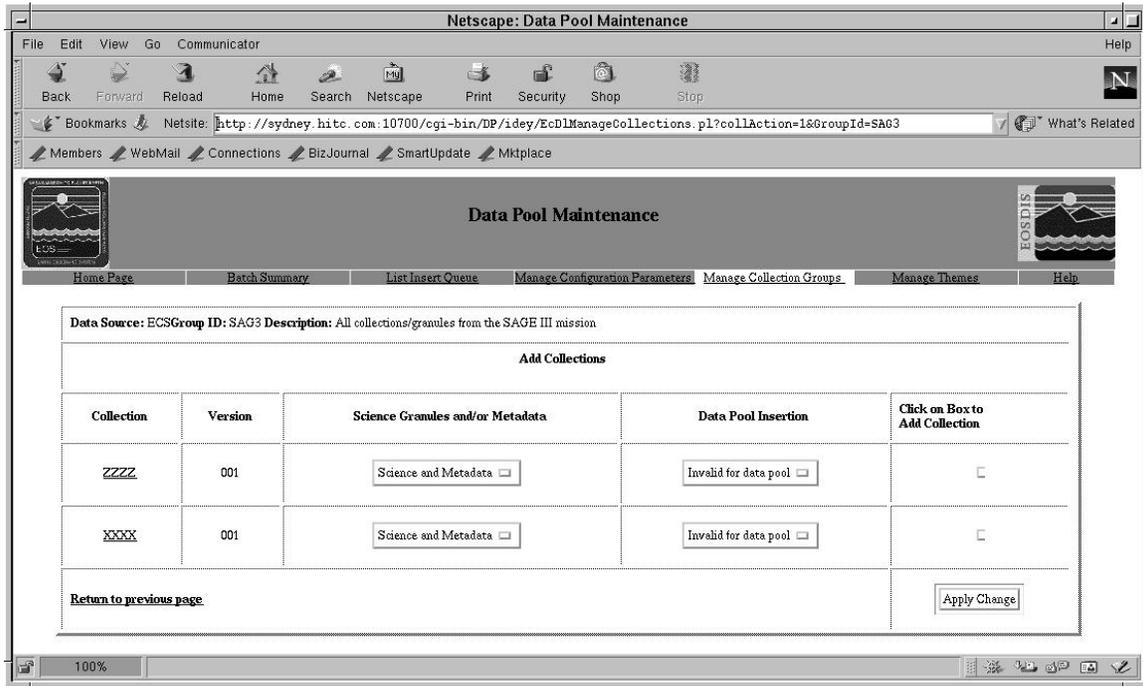


Figure 4.11.14-13. Add New Collections to a Collection Group

Note: The lists of collections reflected in this screen are not currently associated with any Collection Groups in the Data Pool.

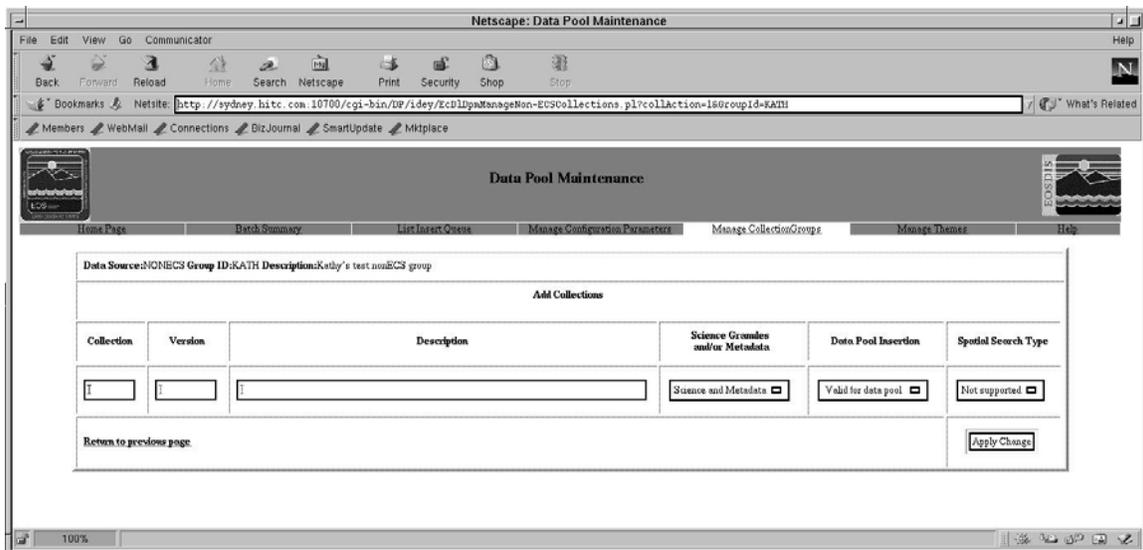


Figure 4.11.14-14. Add New Non-ECS Collections to a Non-ECS Collection Group

Table 4.11.14-5. Add Collection Group Field Description

Field Name	Data Type	Size	Entry	Description
Collection	Character	8	Mandatory	Name of a collection.
Description	Character	80	Optional	Description of collection. Scrollable up to 255 characters.
Version	Integer	3	Mandatory	Version for a collection.

Note: Entry for Non ECS Collection name is verified against input error. It is also verified against the same name and same version id. An error window pops up for each case on the Add Collection screen. Click ok to dismiss the error window.

Input Error



Duplication Error caught by database



4.11.14.1.5.6 Modify Existing Collection

The operator can modify an existing collection by clicking on the **Modify Collection** link shown in Figure 4.11.14-10 for ECS and Figure 4.11.14-11 for NONECS. This link takes the operator to the Modify Collection screen shown in Figure 4.11.14-15 for ECS or Figure 4.11.14-16 for NON-ECS collections. The collections listed are associated with the indicated collection group. The operator is allowed to modify the Science Granules and/or Metadata and Data Pool Insertion columns ECS and NONECS. NONECS collections can also have the option to modify Spatial Search Type column. Spatial Search Type cannot be modified if granules have been inserted for this collection or the collection is enabled for insert. It can only be changed if the collection is invalid for insert and no granules are associated with this collection. After making any desired change, click on the checkbox adjacent to the collection. After making all desired changes, click

on the **Apply Change** button. The changes are applied to the Data Pool database and the List of Collections screen is refreshed.

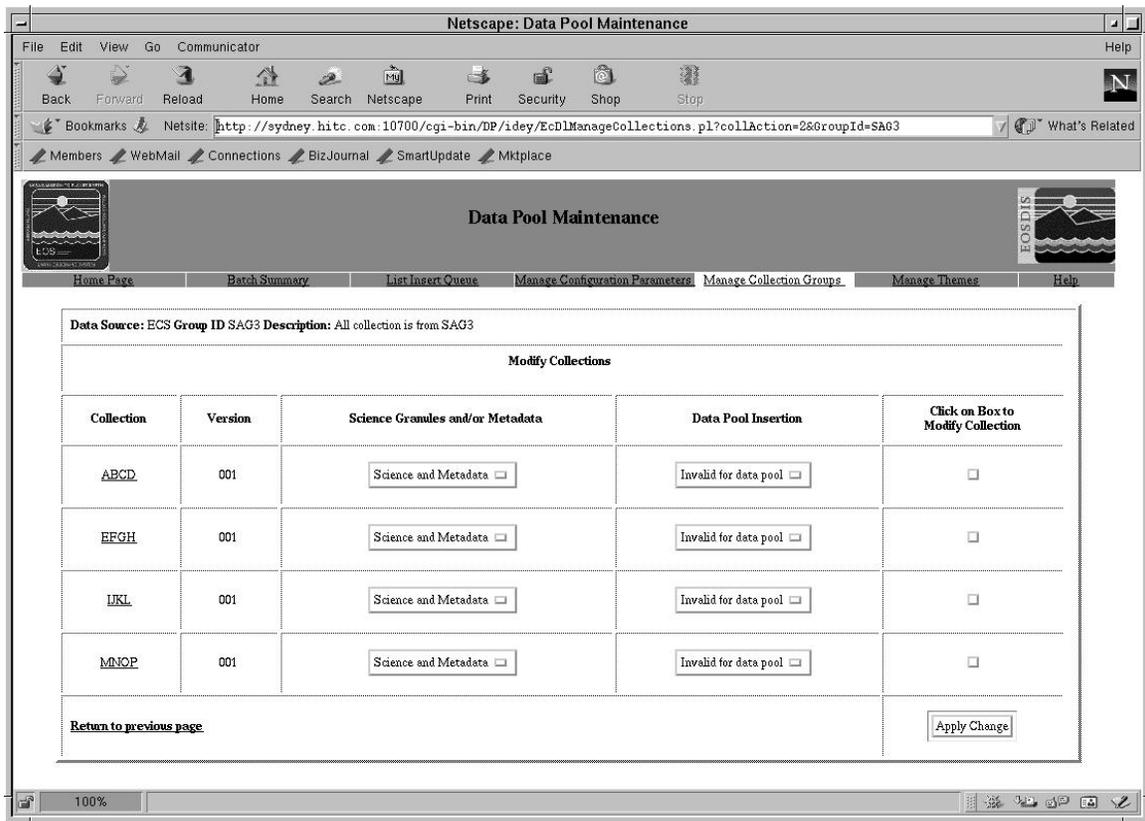


Figure 4.11.14-15. Modify Collection Screen - Update Science Granules and/or Metadata and Data Pool Insertion Columns

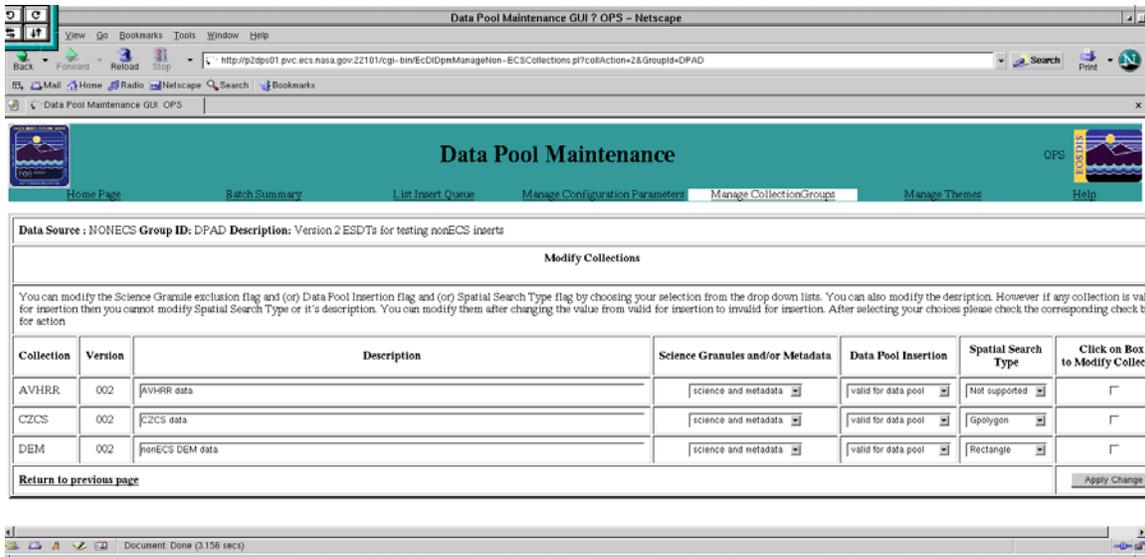


Figure 4.11.14-16. Modify Collections Screen - Update Non-ECS Collections

Note: Spatial Search Type cannot be modified if there is a granule(s) associated with the collection and it is enabled for insert. The following error window pops up to indicate this error. Click ok to dismiss this window.



4.11.14.1.6 Manage Themes Tab

The Manage Themes screen shown in Figure 4.11.14-17 allows the operator to view a list of themes in alphabetical order. This list can be filtered using three filter criteria: Web Visible, Insert Enabled and Beginning Letters. The options for Web Visible: Yes, No and ALL. The options for Insert Enabled: Yes, No and ALL. All of these criteria can be used together or separately. Table 4.11.14-6 identifies the data entry field descriptions when filtering themes. After selecting the option, click **Apply Filter** button to view the filtered list of themes. From this page the operator can also delete a theme by selecting the corresponding check box and clicking on the "**Apply Change**" button. The operator can add a new theme by clicking on the **Add New Theme** link. This link takes the operator to the "Add New Theme" page shown in Figure 4.11.14-18. Table 4.11.14-7 identifies the data entry field descriptions when adding a new theme. The operator needs to add four fields regarding a theme: name, description, valid for insert or not and valid for web drill down or not. The operator also can modify an existing theme

by clicking on the "**Modify Theme**" link from Figure 4.11.14-17. This link takes the operator to the Modify Theme page shown in Figure 4.11.14-19. Table 4.11.14-8 identifies the data entry field descriptions when modifying themes. Theme name is the only field, which is not editable. The operator can modify the description of a theme by simply retyping in the text area. The operator also can change the option for Insert enabled and web enabled by selecting or deselecting the appropriate boxes. After making the selection, the operator needs to select the check box corresponding to the theme and then press the **Apply Change** button. Upon pressing this button the changes take effect in the Data Pool database and also the Manage Themes page in Figure 4.11.14-17 is refreshed.

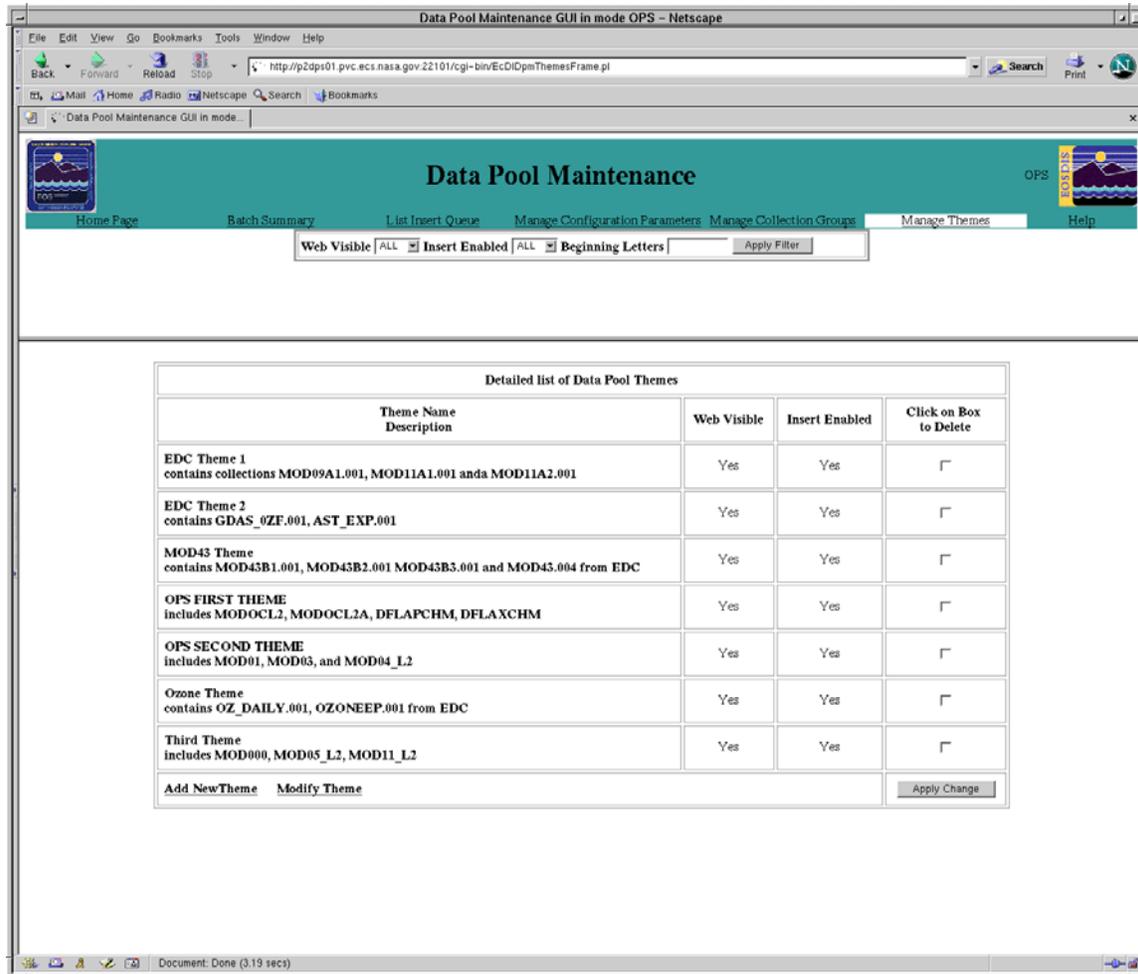


Figure 4.11.14-17. Manage Themes Screen – List of Themes

Note: This screen allows the operator to delete a theme by selecting the checkbox at the far right. A pop up window appears for confirmation for each delete request and an error message appears if a deletion request cannot be fulfilled.

Table 4.11.14-6. Filter Theme Field Description

Field Name	Data Type	Size	Entry	Description
Beginning Letters	Character	10	Mandatory	Partial or full name of a theme. Scrollable up to 40 characters.

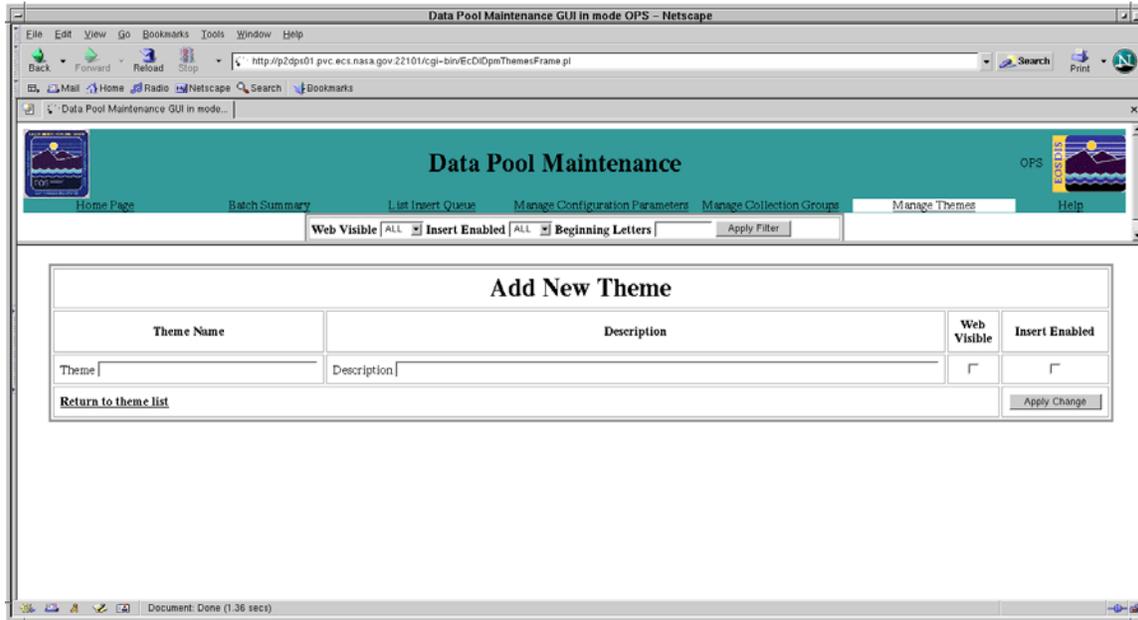


Figure 4.11.14-18. Add New Theme Screen

Table 4.11.14-7. Add Theme Field Descriptions

Field Name	Data Type	Size	Entry	Description
Theme Name	Character	20	Mandatory	Name of a theme. Scrollable up to 40 characters.
Description	Character	100	Mandatory	Description of a theme. Scrollable up to 255 characters.

Note: Theme names are verified against input errors and name duplication. An error window pops up in each case over the Add Theme page to indicate the error. Click ok to dismiss the window.

Input Error:



Duplicate name error caught by database

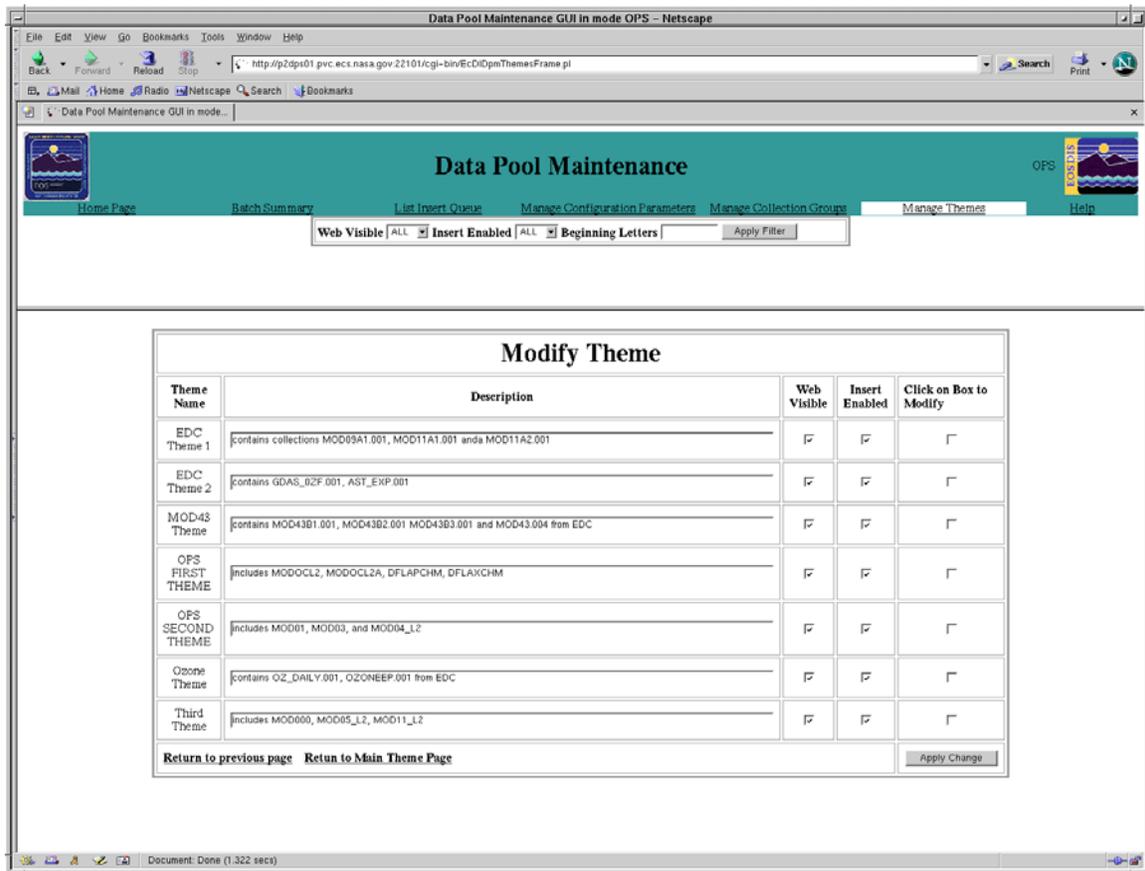


Figure 4.11.14-19. Modify Theme Screen

Table 4.11.14-8. Modify Theme Field Description

Field Name	Data Type	Size	Entry	Description
Description	Character	100	Optional	Description of a theme. Scrollable up to 255 characters.

4.11.14.2 Data Pool Maintenance Main Screen

See Section 4.11.14.1.1.

4.11.14.3 Required Operating Environment

The following environment is required for the DPM GUI to work properly.

The O/S requirements are Solaris 2.5.1 or better.

4.11.14.4 Databases

The DPM GUI accesses the Data Pool and Science Data Server databases.

4.11.14.4.1 Interfaces and Data Types

The DPM GUI exchanges data between the Web Browser and Sybase, using Perl CGI and DBI Modules for the Interface.

4.11.14.5 Special Constraints

There are no special constraints to running the DPM GUI.

4.11.14.6 Outputs

There are no outputs from the DPM GUI except for status and error messages.

4.11.14.7 Event and Error Messages

The DPM GUI writes status and error messages to the EcDIDataPoolGUI.log file in the directory /usr/ecs/<MODE>/CUSTOM/logs.

4.11.14.8 Reports

The DPM GUI does not generate reports.

4.11.15 Order Manager GUI

The Order Manager (OM) Graphical User Interface (GUI) provides the operators with access to the Order Manager database. The GUI is based on web standards. It performs most of its functions by accessing the database directly, in contrast to most current ECS operator GUIs that interface with a server. The GUI allows operators to view and modify requests that have been placed on hold by the Order Manager because they require operator intervention, and resubmit requests or portions of a request that failed. For Synergy III, the GUI is an addition to the existing System Management Subsystem (MSS) order tracking GUI and the Data Distribution (DDIST) GUI, rather than a replacement for them. Specifically, the OM GUI provides the following services:

- View queues' status, suspend and resume the queues of the order manager
- View and modify the configuration parameters
- Monitor the Order Manager Server statistics
- Monitor open interventions
- Manage interventions on requests that have been placed on hold
- View closed intervention list
- View detailed closed intervention information
- View distribution request list
- View detailed distribution request information and resubmit requests with terminal status (failed, cancel, abort, aborted and shipped)
- View the ECS order information
- View the user profile information

View, update and cancel the bundling order information (link to the Spatial Subscription Server (NSBRV) GUI).

4.11.15.1 Quick Start Using Order Manager GUI

Bring up the Web Browser and then access the Universal Resource Locator (URL) for the OM GUI web page.

For example: **<http://yourserver:portnumber/cgi-bin/index.html>**

4.11.15.2 Order Manager Main Screen

The OM GUI Home Page screen shown in Figure 4.11.15-1 explains the basic services of the OM GUI. The operator can click on the links to go to the **OM Queue Status** page, **OM Configuration** page, **Request Management** page, **OM Server Statistics** page, **OM GUI Log Viewer** page and **Help** page.

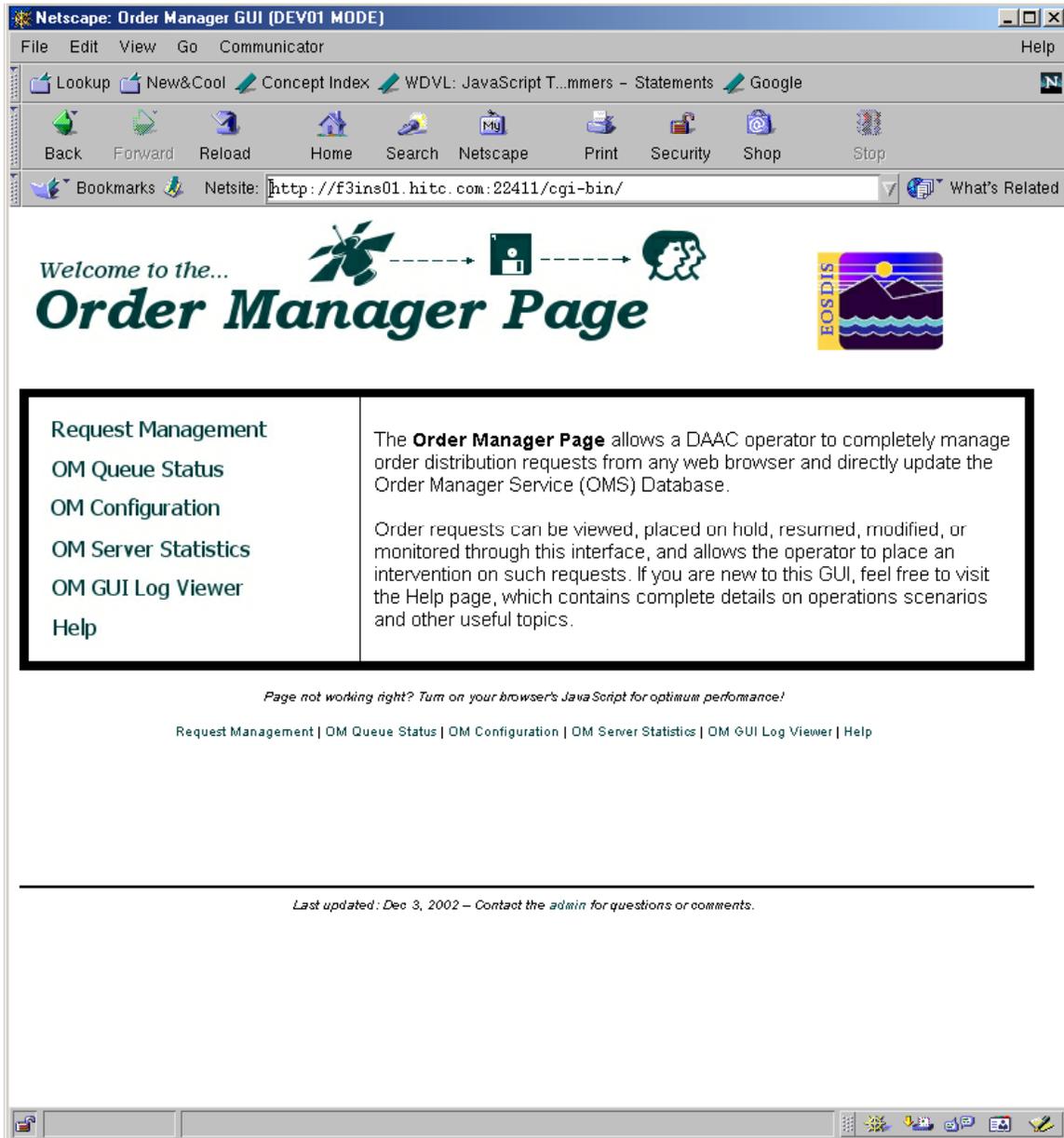


Figure 4.11.15-1. Order Manager GUI Home Page.

4.11.15.2.1 Order Manager Queue Status Page

The operator can click on the **OM Queue Status** link on the Home page to open the OM Queue Status web page, Figure 4.11.15-2. This screen allows the operator to monitor the current settings of all media and electronic distribution queue statuses, as well as the e-mail queue status. Also, the operator can monitor whether the Order Manager Server is up or down. In addition, the operator can infer whether the Product Distribution System (PDS) and Science Data Server (SDSRV) are up or down by noting the “S” status (**SUSPENDED BY SERVER**) in the screen (e.g., if the Order Manager FTP Push and FTP Pull queues are suspended by the Order Manager server, it is likely the SDSRV is down). Other states are “A” (**Active**) and “O” (**Suspended by Operator**). The operator can suspend or resume the queue by selecting the **Suspend** or **Resume** option from the drop down list and then clicking on the **Apply** button. The page is refreshed every 5 minutes by default. The operator can change the refresh rate by selecting from the pull down list. The operator can also choose to suspend refresh by clicking on the **Suspend refresh** radio button. Table 4.11.15-1 provides a description of the Order Manager Graphical User Interface Queue Status fields.

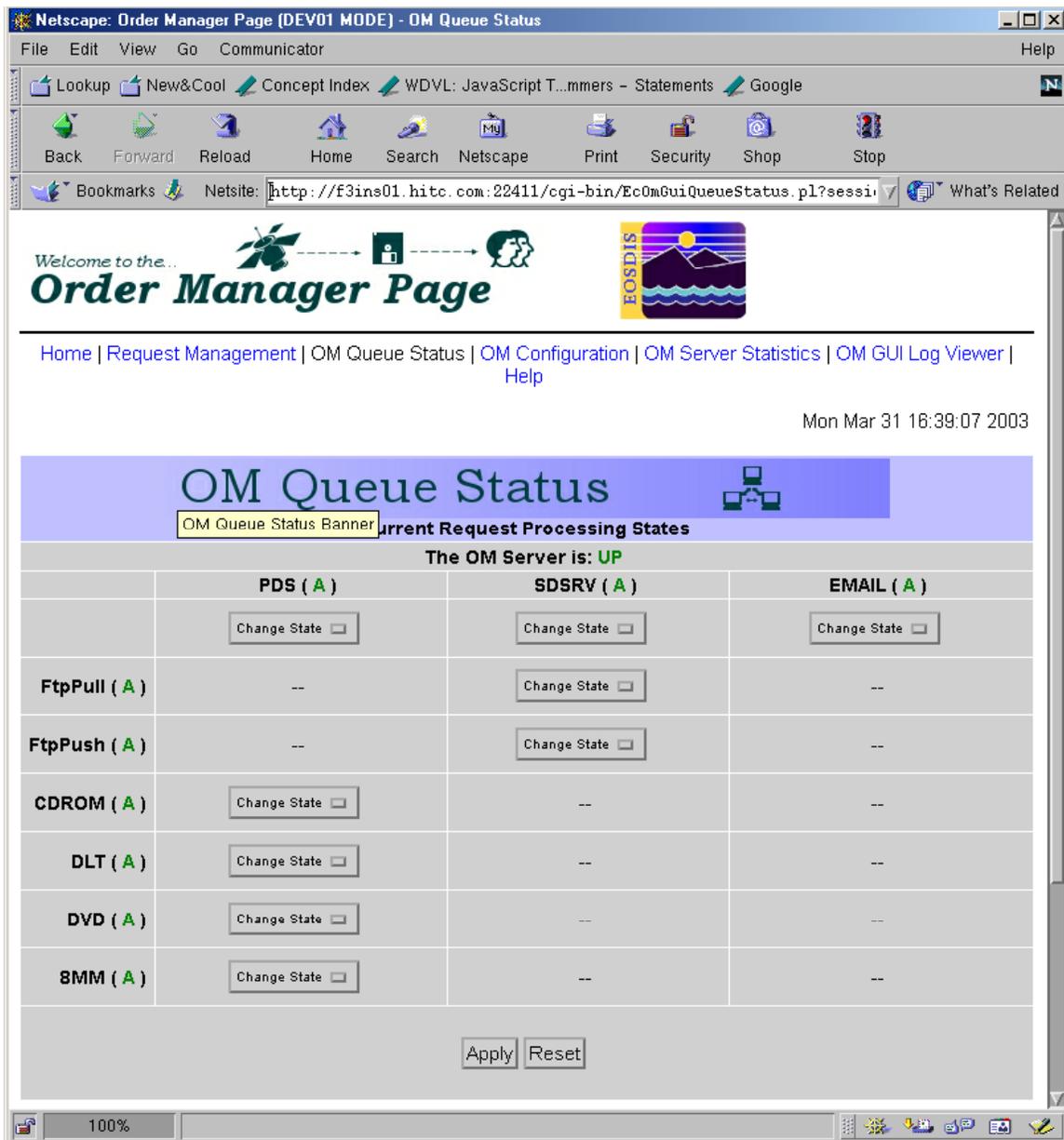


Figure 4.11.15-2. OM Server Queue Status Page

Table 4.11.15-1. OM GUI Queue Status Field Descriptions

Field Name	Data Type	Size	Entry	Description
PDS	Character	N/A	Optional, select Activate All / Suspend All	Options for suspend and resume the PDS queue.
SDSRV	Character	N/A	Optional, select Activate All / Suspend All	Options for suspend and resume the SDSRV queue.
E-mail	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the e-mail queue.
8mm	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the 8mm queue.
CD-ROM	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the CD-ROM queue.
DVD	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the DVD queue.
DLT	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the DLT queue.
Ftp Push	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the Ftp Push queue.
Ftp Pull	Character	N/A	Optional, select Activate/Suspend	Options for suspend and resume the Ftp Pull queue.
Auto-refresh screen every (Minutes)	Integer	2	Optional	Interval in minutes for screen auto-refresh.

4.11.15.2.2 Order Manager Configuration Page

The operator can click on the **OM Configuration** link to open the **OM Configuration** page. Links at the top of the page permit selection of the **Server Configuration**, Figure 4.11.15-3 or the **Media Configuration**, Figure 4.11.15-4. The page displays the current setting of configuration parameters. The Operator can also change the configuration parameters of the Order Manager Server by typing the new values in the text box and then clicking on the **Apply** button. Table 4.11.15-2 provides a description of the fields of the OM GUI Configuration Parameter page.

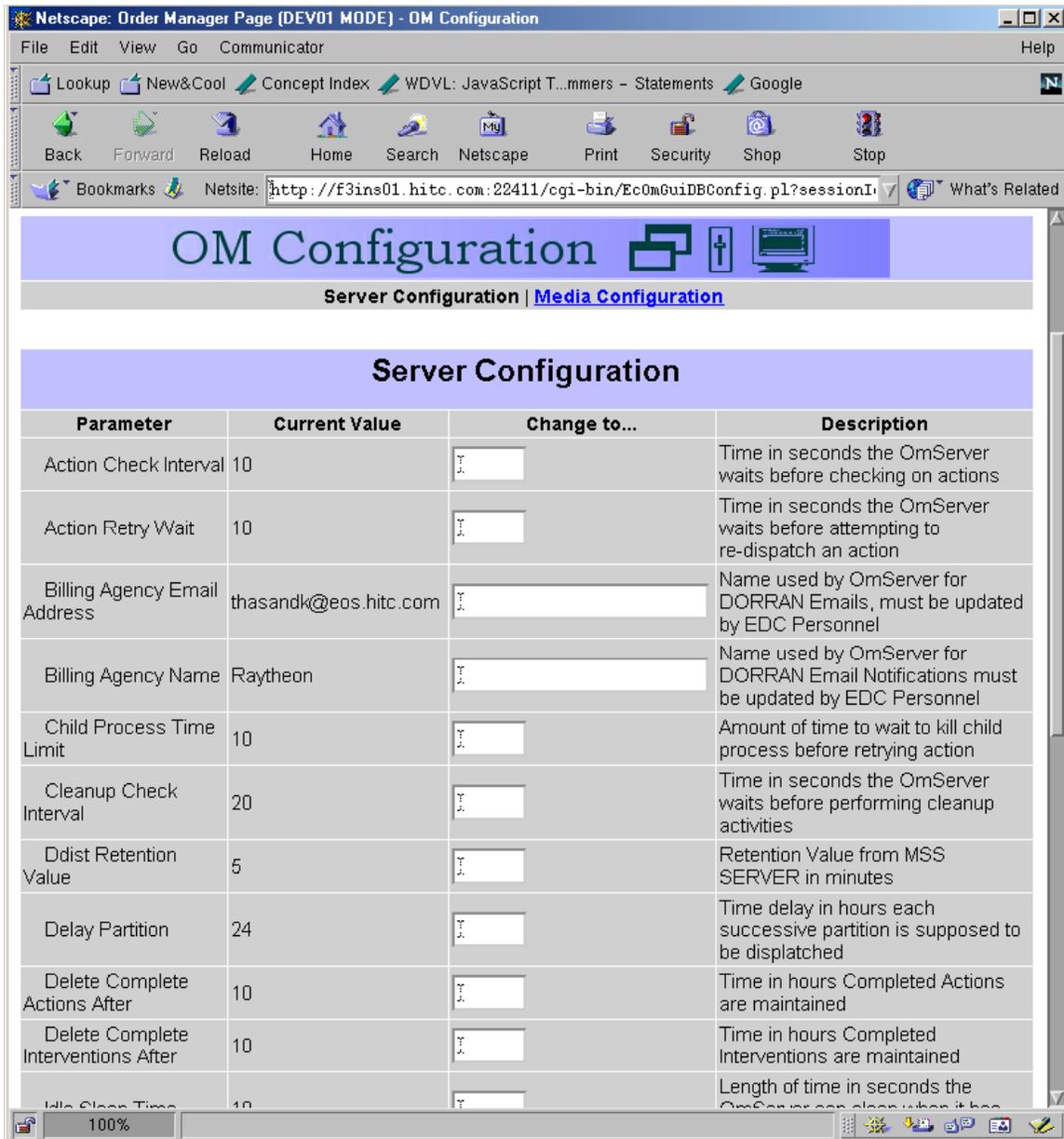


Figure 4.11.15-3. Server Configuration: Configuration Parameters Page of the Order Manager GUI (1 of 2)

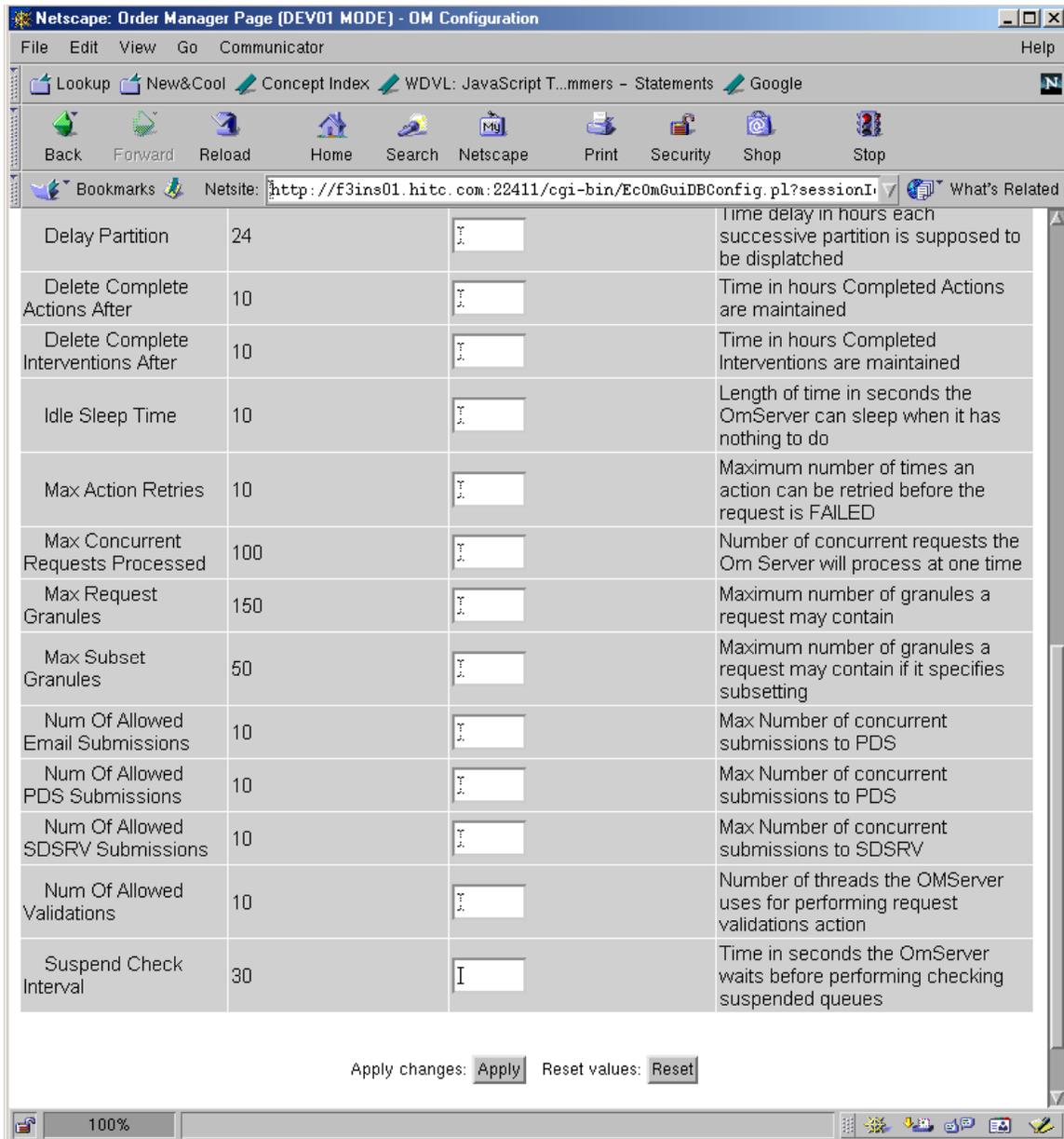


Figure 4.11.15-3. Server Configuration: Configuration Parameters Page of the Order Manager GUI (2 of 2)

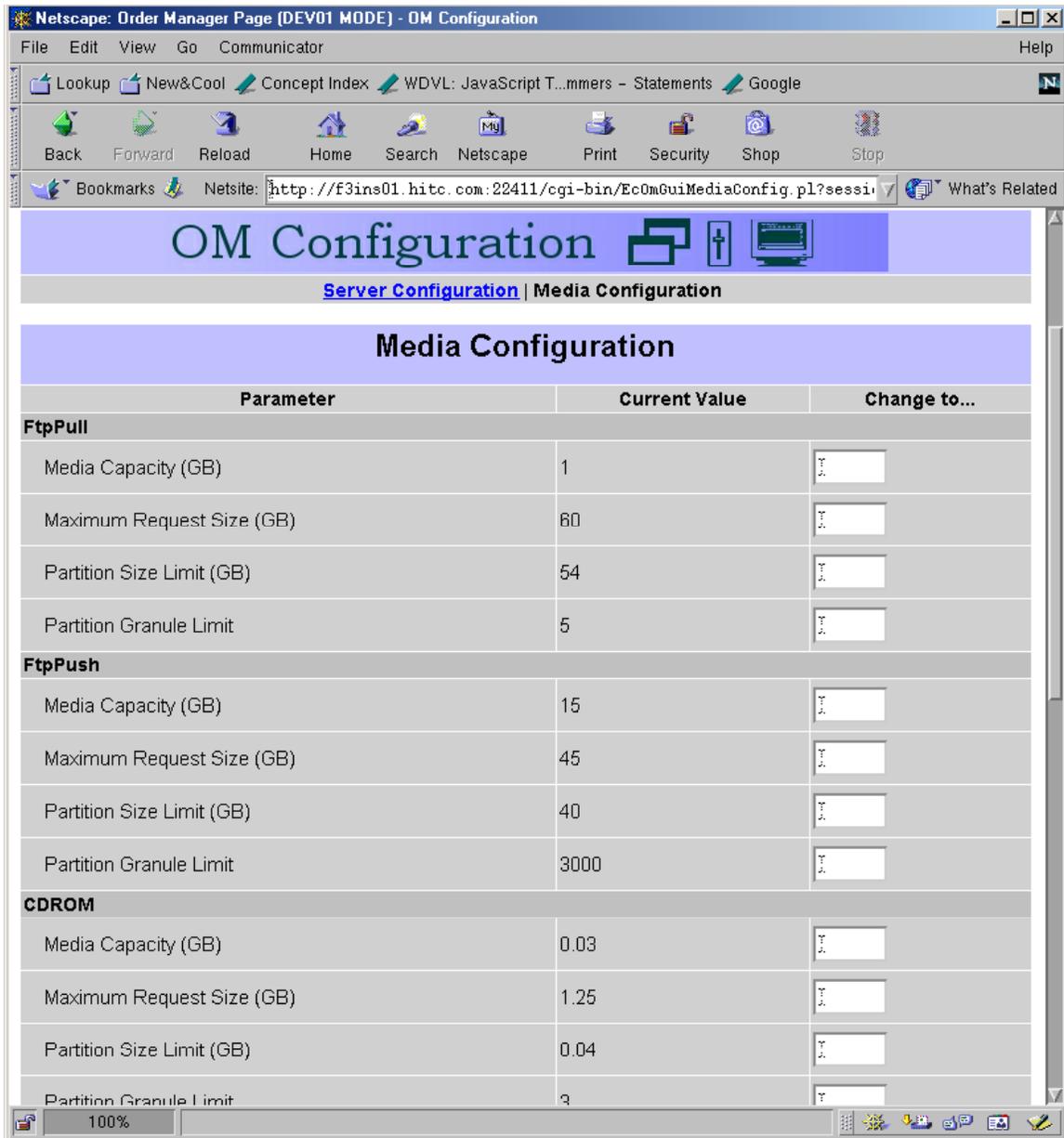


Figure 4.11.15-4. Media Configuration: Configuration Parameters Page of the Order Manager GUI (1 of 2)

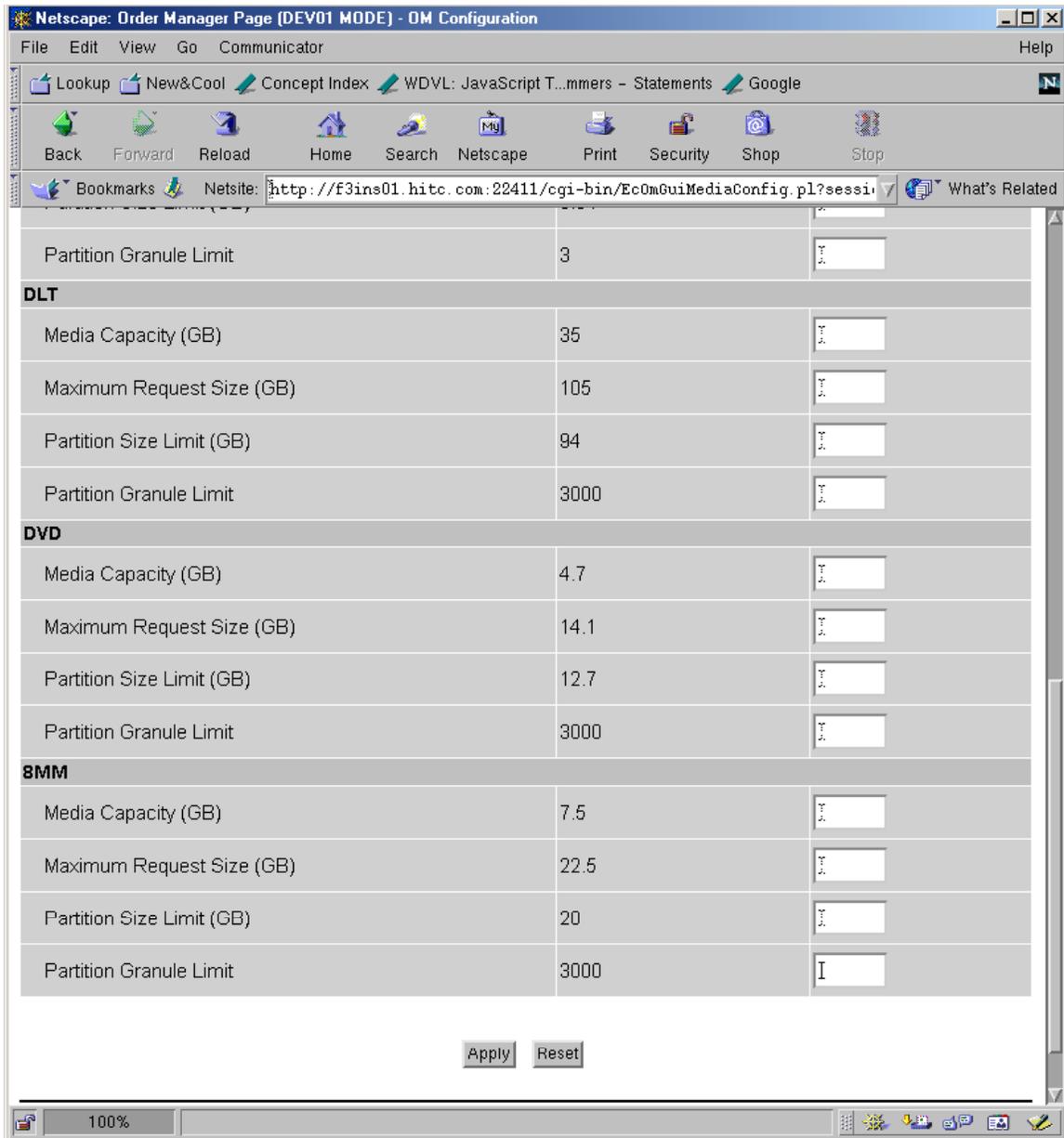


Figure 4.11.15-4. Media Configuration: Configuration Parameters Page of the Order Manager GUI (2 of 2)

Table 4.11.15-2. OM GUI Configuration Parameters Descriptions (1 of 2)

Field Name	Data Type	Size	Entry	Description
8mm Media Capacity (MB)	Integer	10	Optional	8mm Media Capacity (MB).
8mm Maximum Request Size (MB)	Integer	10	Optional	8mm maximum request size (MB).
8mm Minimum Bundle Size (MB)	Integer	10	Optional	8mm minimum bundle size (MB).
8mm Granule Partition Limit (MB)	Integer	10	Optional	8mm Granule Partition Limit (MB).
CD-ROM Media Capacity (MB)	Integer	10	Optional	CD-ROM Media Capacity (MB).
CD-ROM Maximum Request Size (MB)	Integer	10	Optional	CD-ROM maximum request size (MB).
CD-ROM Minimum Bundle Size (MB)	Integer	10	Optional	CD-ROM minimum bundle size (MB).
CD-ROM Granule Partition Limit (MB)	Integer	10	Optional	CD-ROM Granule Partition Limit (MB).
DVD Media Capacity (MB)	Integer	10	Optional	DVD Media Capacity (MB).
DVD Maximum Request Size (MB)	Integer	10	Optional	DVD maximum request size (MB).
DVD Minimum Bundle Size (MB)	Integer	10	Optional	DVD minimum bundle size (MB).
DVD Granule Partition Limit (MB)	Integer	10	Optional	DVD Granule Partition Limit (MB).
DLT Media Capacity (MB)	Integer	10	Optional	DLT Media Capacity (MB).
DLT Maximum Request Size (MB)	Integer	10	Optional	DLT maximum request size (MB).
DLT Minimum Bundle Size (MB)	Integer	10	Optional	DLT minimum bundle size (MB).
DLT Granule Partition Limit (MB)	Integer	10	Optional	DLT Granule Partition Limit (MB).
Ftp Push Media Capacity (MB)	Integer	10	Optional	Ftp Push Media Capacity (MB).
Ftp Push Maximum Request Size (MB)	Integer	10	Optional	Ftp Push maximum request size (MB).
Ftp Push Minimum Bundle Size (MB)	Integer	10	Optional	Ftp Push minimum bundle size (MB).
Ftp Push Granule Partition Limit (MB)	Integer	10	Optional	Ftp Push Granule Partition Limit (MB).
Ftp Pull Media Capacity (MB)	Integer	10	Optional	Ftp Pull Media Capacity (MB).
Ftp Pull Maximum Request Size (MB)	Integer	10	Optional	Ftp Pull maximum request size (MB).
Ftp Pull Minimum Bundle Size (MB)	Integer	10	Optional	Ftp Pull minimum bundle size (MB).

Table 4.11.15-2. OM GUI Configuration Parameters Descriptions (2 of 2)

Field Name	Data Type	Size	Entry	Description
Ftp Pull Granule Partition Limit (MB)	Integer	10	Optional	Ftp Pull Granule Partition Limit (MB).
Action Queue Cleanup Interval (Hours)	Integer	10	Optional	Time in hours in which the OM Server cleans up completed actions.
Action Retry Wait (Seconds)	Integer	10	Optional	Time in seconds the OM Server waits before attempting to re-dispatch an action.
Bundling Order Expiration Period (Hours)	Integer	10	Optional	Default expiration period in hours for bundling orders.
Max Child Process Time (Seconds)	Integer	10	Optional	Time in seconds to wait to kill child process before retrying an action.
Partition Delay Time (Seconds)	Integer	10	Optional	Time delay in seconds for dispatching each successive partition.
Intervention Display Time (Minutes)	Integer	10	Optional	Time, in minutes, completed interventions are maintained.
Max OM Server Idle Time (Seconds)	Integer	10	Optional	Time in seconds OM Server is allowed to sleep when there are no active processes.
Intervention Cleanup Interval (Days)	Integer	10	Optional	Interval in days the OM Server cleans up completed interventions.
Max Action Retries	Integer	10	Optional	Maximum retries for a request before it is failed.
Max Bundle Age (Days)	Integer	10	Optional	Default maximum bundle age in days or fraction of days.
Max Granules Per Request	Integer	10	Optional	Maximum number of granules a request may contain.
Max Granules Per Subsetted Request	Integer	10	Optional	Maximum number of granules a request may contain if subsetting is specified.
Min Granules Per Bundle	Integer	10	Optional	Default minimum bundle granule count.
Max E-Mail Submissions	Integer	10	Optional	Maximum e-mail submissions.
Max Concurrent PDS Submissions	Integer	10	Optional	Maximum concurrent submissions to PDS.
Max Concurrent SDSRV Submissions	Integer	10	Optional	Maximum concurrent submissions to Science Data Server.

4.11.15.2.3 Order Manager Server Statistics Page

The operator can click on the **OM Server Statistics** link to open the OM Server Statistics page, Figure 4.11.15-5. This page displays the statistics of the OM server requests for the last one hour, by default (including the number of requests and the request volume to the OM server from the V0 Gateway and Spatial Subscription Server by different distribution media and the output of the OM server to Product Distribution System (PDS) and Science Data Server (SDSRV)). The operator can change the time period for statistics by entering a different number of hours in the text area and clicking the **Apply** button. This page is refreshed by default every 5 minutes. The operator can change the refresh rate by selecting from the pull down list. The operator can also choose to suspend refresh by clicking on the **Suspend refresh** radio button.

Table 4.11.15-3 provides a description of the fields of the OM Server Statistics page.

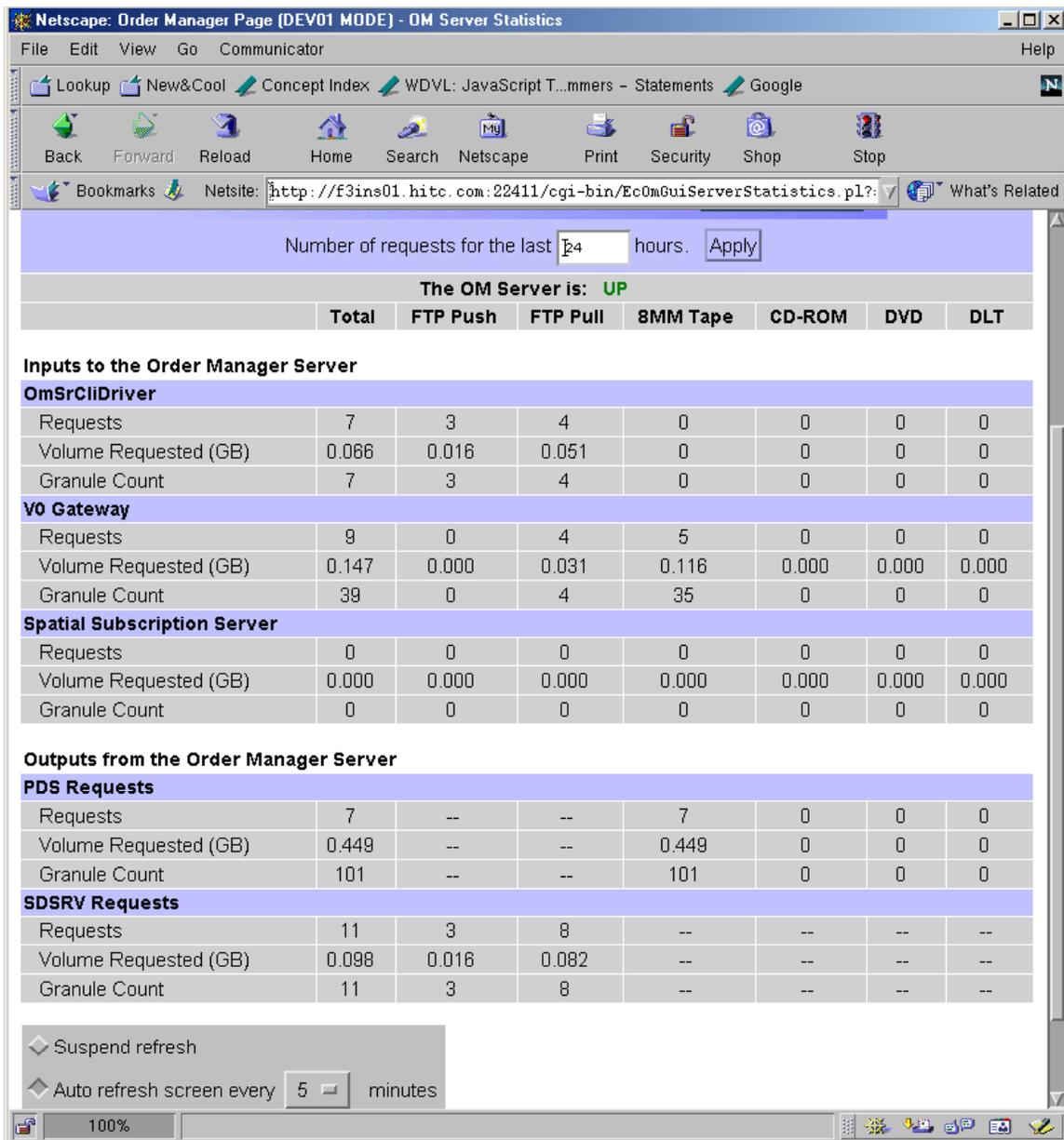


Figure 4.11.15-5. Order Manager Server Statistics Page

Table 4.11.15-3. Order Manager Server Statistics Page Field Descriptions

Field Name	Data Type	Size	Entry	Description
Number of requests for the last (n hours)	Integer	5	Optional	Duration of the immediately preceding period for which statistics are to be shown.
Auto-refresh screen every (x minutes)	Integer	2	Optional	Interval in minutes for screen auto-refresh.

4.11.15.2.4 Request Management Page

The operator can click on the **Request Management** link to open the **View Open Interventions** page, Figure 4.11.15-6. This page displays a list of open interventions. The open intervention list can be sorted by clicking on the **Media, Status, Worked By, Order Id, Request Id,** and **Created** links. The default sort is creation time. The operator can scan through the list by clicking on navigation links. These links permit selecting specific listed blocks of requests or jumping to the **first, next, previous** or **last** block. The number of requests in a block is configurable. The operator can click on the **View Completed Interventions** link to view the list of completed interventions and click on the **View Distribution Requests** to view the list of distribution requests. The operator can click on any of the links in the **Request Id** column to go to one particular intervention's detail page. This page is refreshed by default every 5 minutes. The operator can change the refresh rate by selecting from the pull down list. The operator can also choose to suspend refresh by clicking on the **Suspend refresh** radio button. Table 4.11.15-4 provides a description of the fields for the Request Management page.

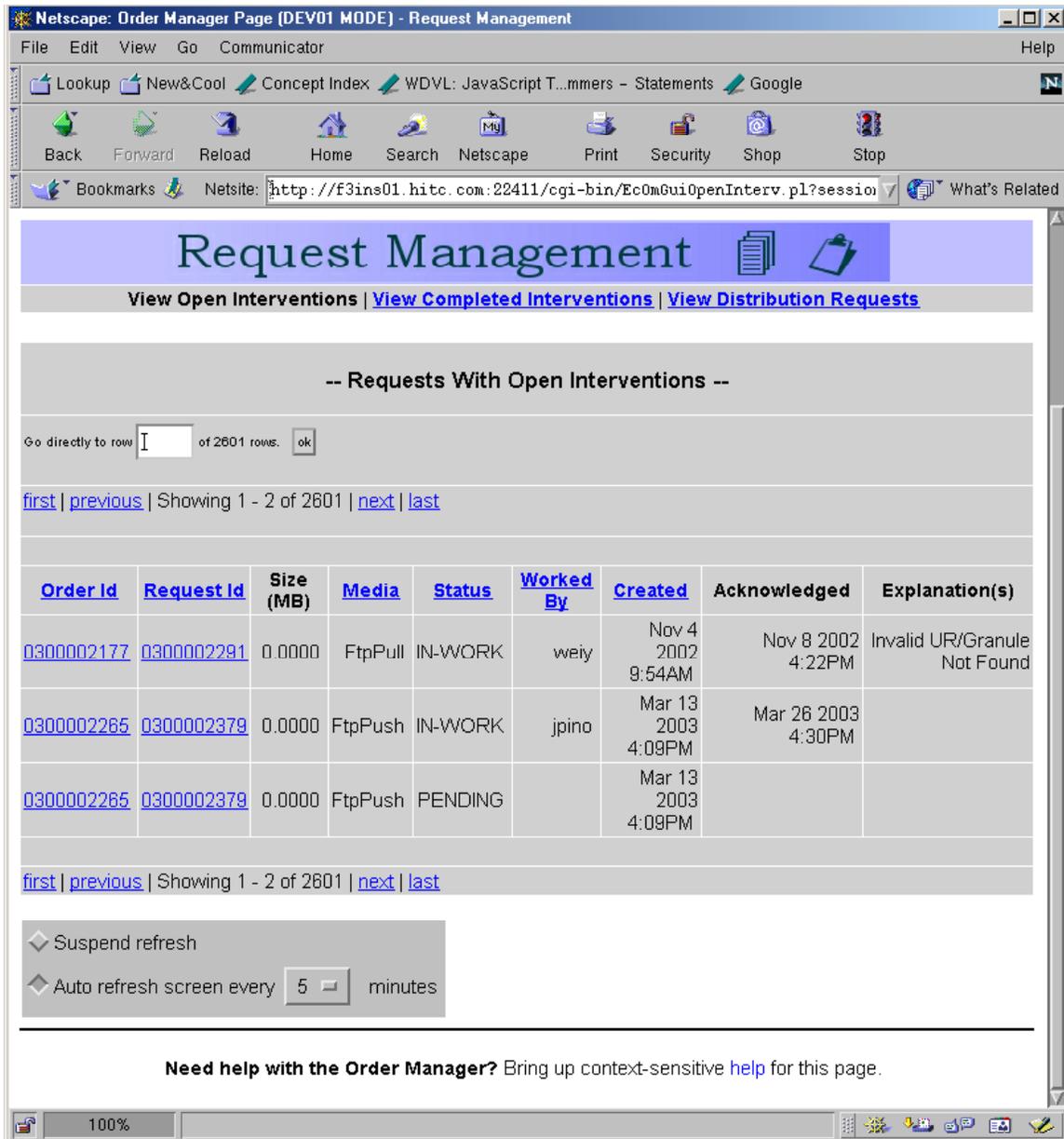


Figure 4.11.15-6. Request Management: View Open Interventions Page

Table 4.11.15-4. Request Management Page Field Descriptions

Field Name	Data Type	Size	Entry	Description
Go directly to row	Link	N/A	Optional	Selects first row of a block of requests to display. Click on OK to apply the row number.
First	Link	N/A	Optional	Selects first block of requests.
<Previous>	Link	N/A	Optional	Selects previous block of requests.
<Next>	Link	N/A	Optional	Selects next block of requests.
Last	Link	N/A	Optional	Selects last block of requests.
Auto-refresh screen every (minutes)	Integer	2	Optional	Interval in minutes for screen auto-refresh.

4.11.15.2.4.1 Intervention for Request Pages

The operator can click on one particular request ID link from the **View Open Interventions** page to display one particular open intervention for that request. The intervention information is displayed as shown in Figure 4.11.15-7. The operator can click on the **Order ID** link to view detailed order information. The list of granules in this request is displayed with the display order of “hold” status first, “failed” status second, “Ok” status last. The operator can scan through the list by clicking on navigation links. These links permit selecting specific listed blocks of granules or jumping to the **first**, **next**, **previous** or **last** block. The number of granules in a block is configurable. The attributes and options of disposition are also displayed. The operator notes are also shown in this page if there exist operator notes.

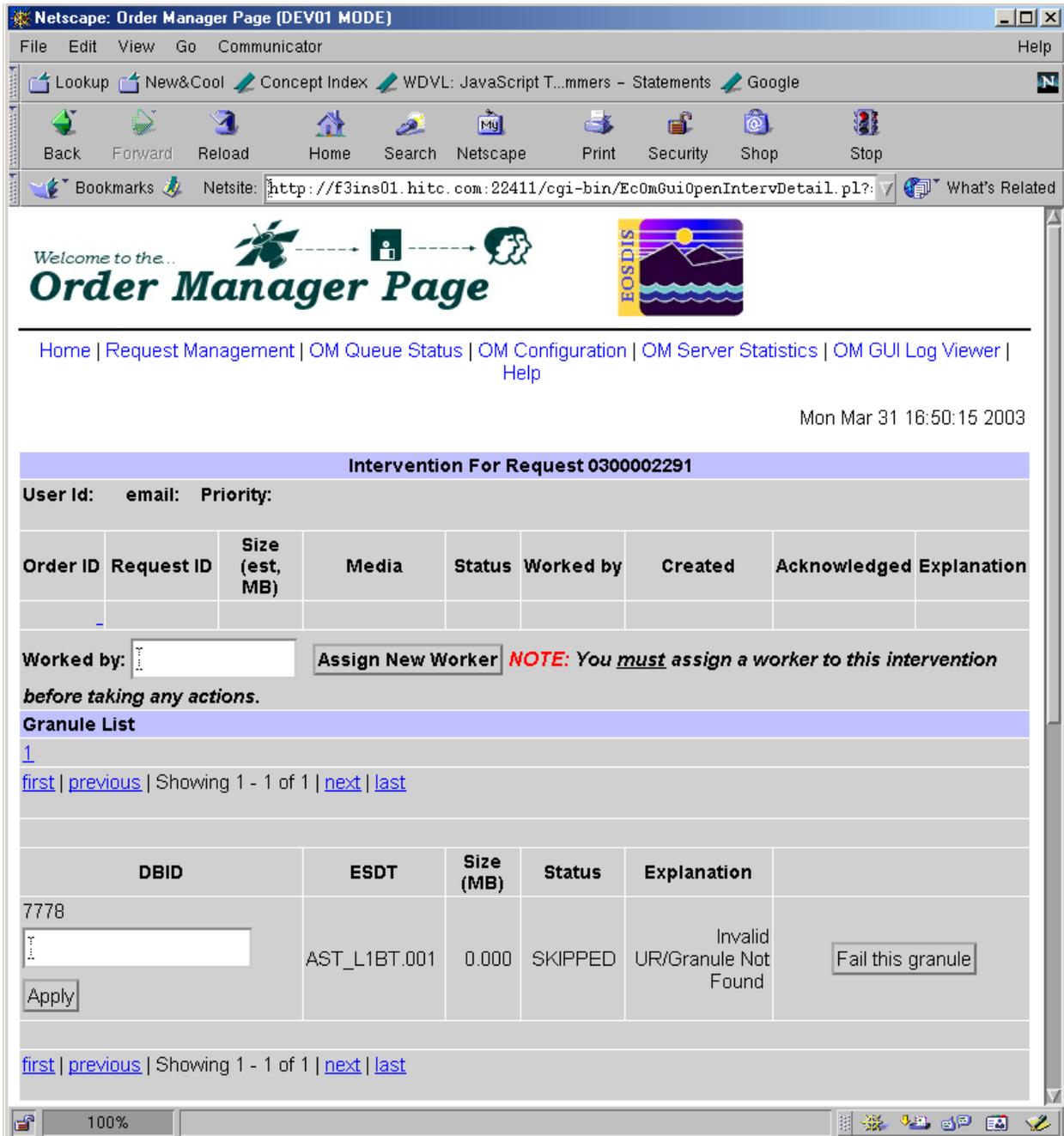


Figure 4.11.15-7. Intervention for Request Page

The **Intervention for Request** page is also displayed when an operator resubmits a distribution request clicking a **resubmit** button on the **Distribution Requests List** page (see paragraph 4.11.15.2.4.6) or the **Resubmit This Request** button on the **Distribution Request Details** page (see paragraph 4.11.15.2.4.7). This generates a new intervention request and permits the

operator to set new parameters for the request (e.g., new FtpPush information). In this case, the **Intervention for Request** page displays **Update FtpPush Parameters** in the **Request Attributes** options under **Request Level Disposition** as illustrated in Figure 4.11.15-8.

Table 4.11.15-5 provides a description of the fields for the Intervention for Request page.

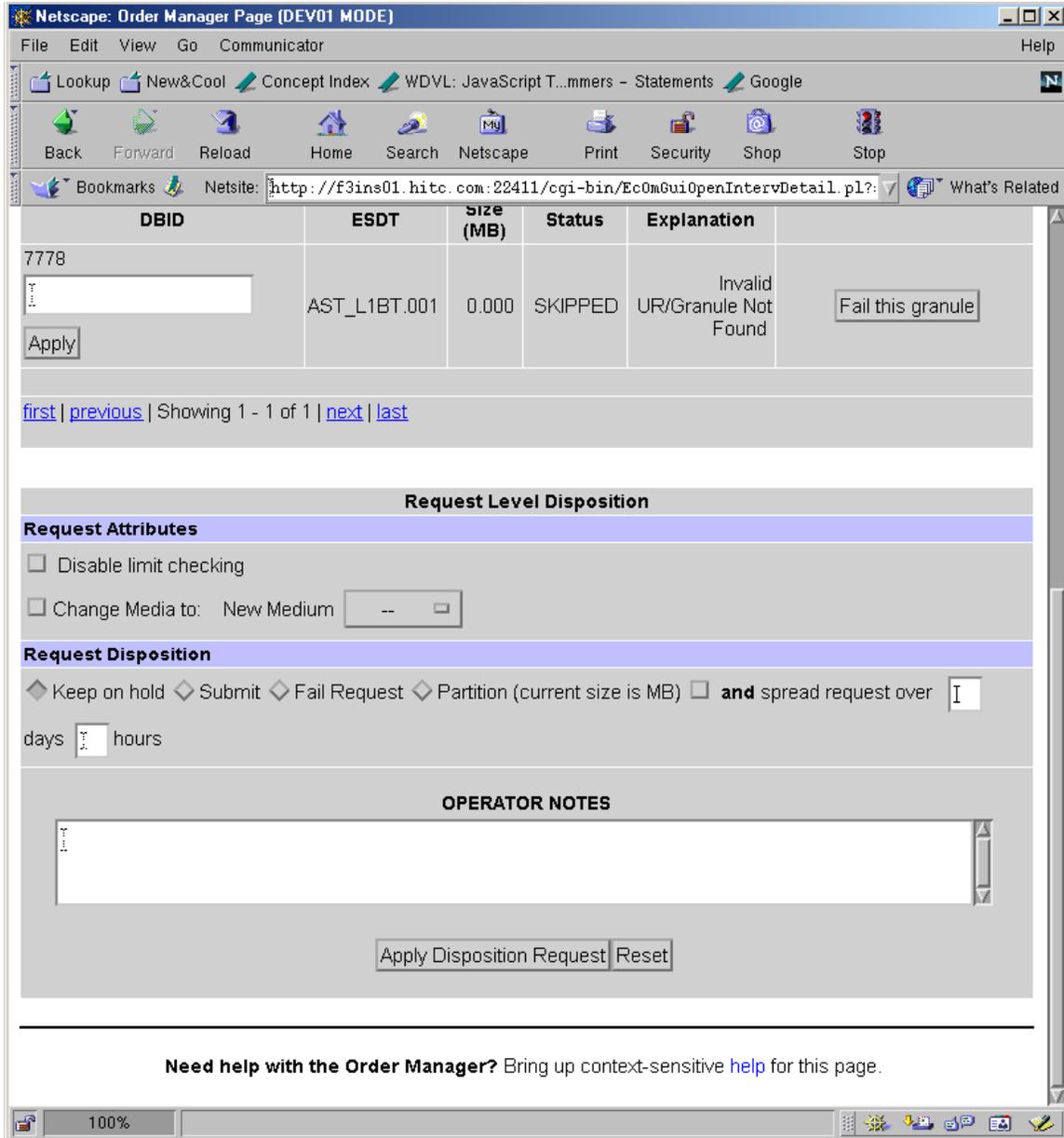


Figure 4.11.15-8. Intervention for Request Page with Option to Update FtpPush Parameters

Table 4.11.15-5. Intervention for Request Page Field Descriptions

Field Name	Data Type	Size	Entry	Description
Worked by	Character	14	Optional	Name of operator working on the intervention.
<N ₁ > - <N ₂ >	Link	N/A	Optional	Selects a block of granules.
First	Link	N/A	Optional	Selects first block of granules.
<Previous	Link	N/A	Optional	Selects previous block of granules.
Next>	Link	N/A	Optional	Selects next block of granules.
Last	Link	N/A	Optional	Selects last block of granules.
DBID (New)	Character	15	Optional	DbID of replacement for inaccessible granule.
Request Attributes	Checkbox	1	Optional	Check the box to select attributed for request disposition.
Change Media to	Character	N/A	Optional	Selects media from pull-down list.
Partition and spread request over (days)	Integer	2	Optional	Number of days in the interval over which a partitioned request is to be spread.
Partition and spread request over (hours)	Integer	2	Optional	Number of hours in the interval over which a partitioned request is to be spread.
Operator Notes	Character	255	Optional	Comments to be stored concerning the request.

The following are the operator steps to work on an intervention.

1. If no one is currently working on the intervention, the button adjacent to the **Worked by:** field is labeled “Assign New Worker”. The operator can type in his or her name if he or she decides to work on this intervention. If there is already a worker assigned to the intervention, the button adjacent to the **Worked by:** field is labeled “Override Current Worker” and the operator can overwrite the displayed worker ID and click on the button. (The general rule is not to overwrite the name unless the previous worker is on vacation or is extremely busy. The change needs to be coordinated.)
2. First, the operator can choose to fail or edit granules (e.g., some granules which are inaccessible can be replaced by new granule DBID; the operator has the responsibility to choose the new granule and specify the new DBID in the entry field next to the old dbId). After the operator clicks on the **Apply** button for any granule to be failed or edited, a dialog displays to confirm the change to the granule. After the confirmation, the page is reloaded. The order of the list of granules is resorted. (Note: Any granule changes are permanent after the confirmation.)
3. Next, the operator chooses the disposition on the intervention. If desired, the operator can first choose the attributes for disposition. There are always two attributes: 1. **Disable Limit checking** and 2. **Change media to**. A third attribute, **Update FtpPush Parameters** appears if the media type is FTP Push. If the operator chooses the **Disable Limit checking** attribute, the request size limit checking is disabled (when the **Apply Disposition Request** button is

clicked to submit the request – see Step 5). If the operator chooses the **Change Media to** attribute, it is necessary to use the associated option button to select the new media selection from its drop-down list. The operator can choose to skip selecting the attributes. Finally, after choosing attributes (or skipping the selection of attributes), the operator can choose different dispositions. There are four kinds of dispositions:

- **Keep on hold.** (Normally, the operator can use this disposition to add or update the operator notes on intervention. The intervention is not done.)
- **Submit.** (The operator can use this disposition to release the intervention (a) without changing anything (just retry) (b) with limits disabled when selecting **Disable limit checking** attribute (c) changing the media when selecting **Change Media to** attribute (normally for the case that granule size exceeds media capacity) (d) retrying with any committed edits to the granules (see Step 2).)
- **Fail request.**
- **Partition** (Normally for the case that request size exceeds maximum request size).

4. The operator can also add or edit the operator notes.

Then click the **Apply Disposition Request** button. A confirmation page is displayed to show the disposition information (see paragraph 4.11.15.2.4.2). For a failed request and granules, the additional e-mail text is displayed to allow the operator to optionally add additional e-mail text. The default is to send e-mail for failed request or granules. However, the operator can choose not to send e-mail. For changing the media to FTP Push, a list of FTP push parameters is shown in the confirmation page.

4.11.15.2.4.2 Confirmation for Intervention Page

After the operator clicks the **Apply** button in the open intervention page, a confirmation page is displayed to show the disposition information as shown in Figure 4.11.15-9. For a failed request and granules, the additional e-mail text field is displayed to allow the operator to optionally add additional e-mail text. The default is to send e-mail for a failed request or granules. However, the operator can choose not to send e-mail by clicking on **Do not send e-mail**. The operator can click on the OK button to confirm the disposition. Table 4.11.15-6 provides a description of the entry field for the Confirmation for Intervention page.

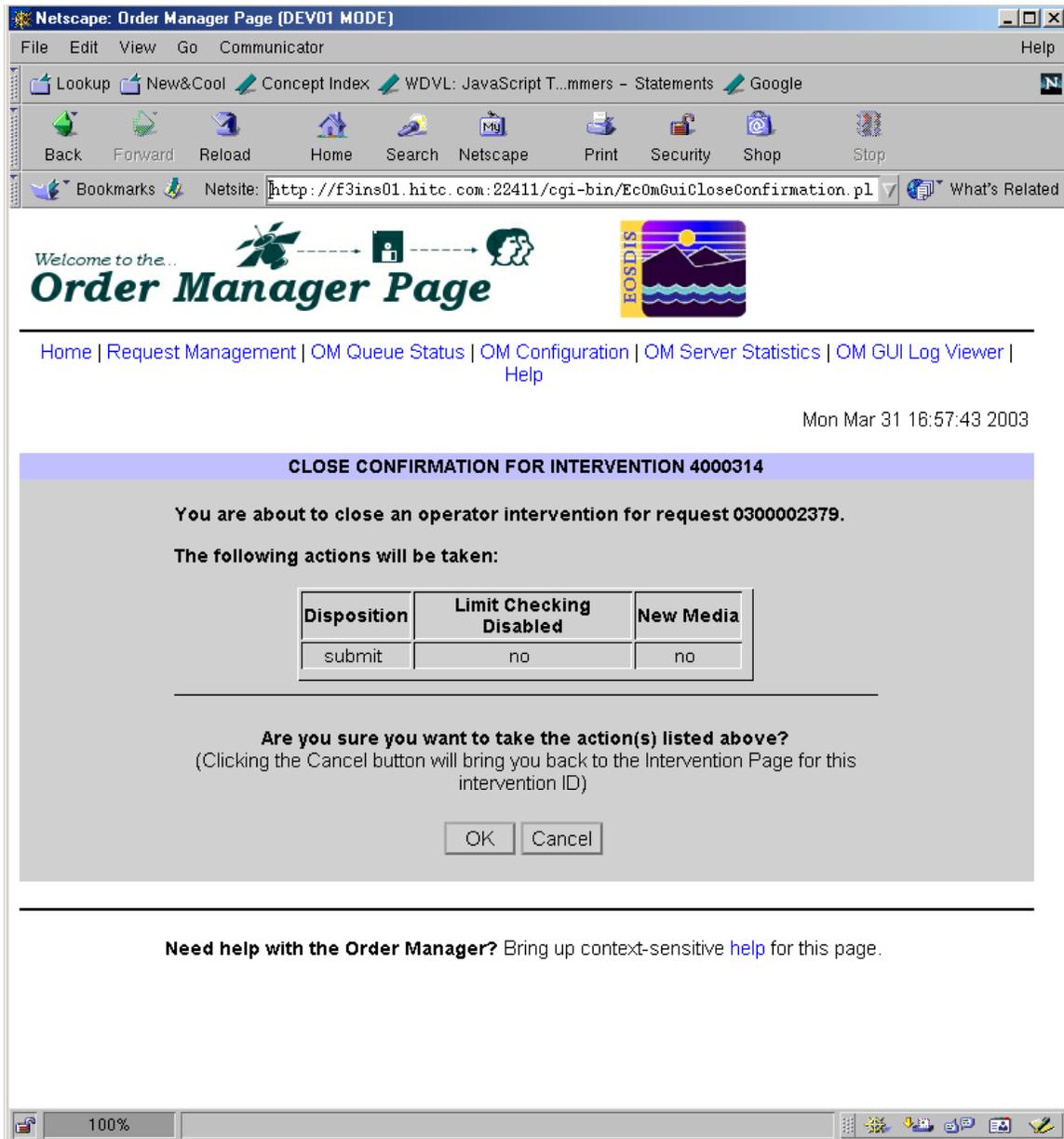


Figure 4.11.15-9. Confirmation for Intervention Page

Table 4.11.15-6. Confirmation for Intervention Page Field Description

Field Name	Data Type	Size	Entry	Description
Additional e-mail text	Character	255	Optional	Comments to be appended to the standard e-mail text.

4.11.15.2.4.3 Confirmation for Intervention Page when Changing Media to FTP Push

If the operator changes the media type to FtpPush, the FtpPush parameters are displayed in the confirmation page, as shown in Figure 4.11.15-10. The operator has to enter all values for Ftp Push parameters. Table 4.11.15-7 provides field descriptions for the entry of these values.

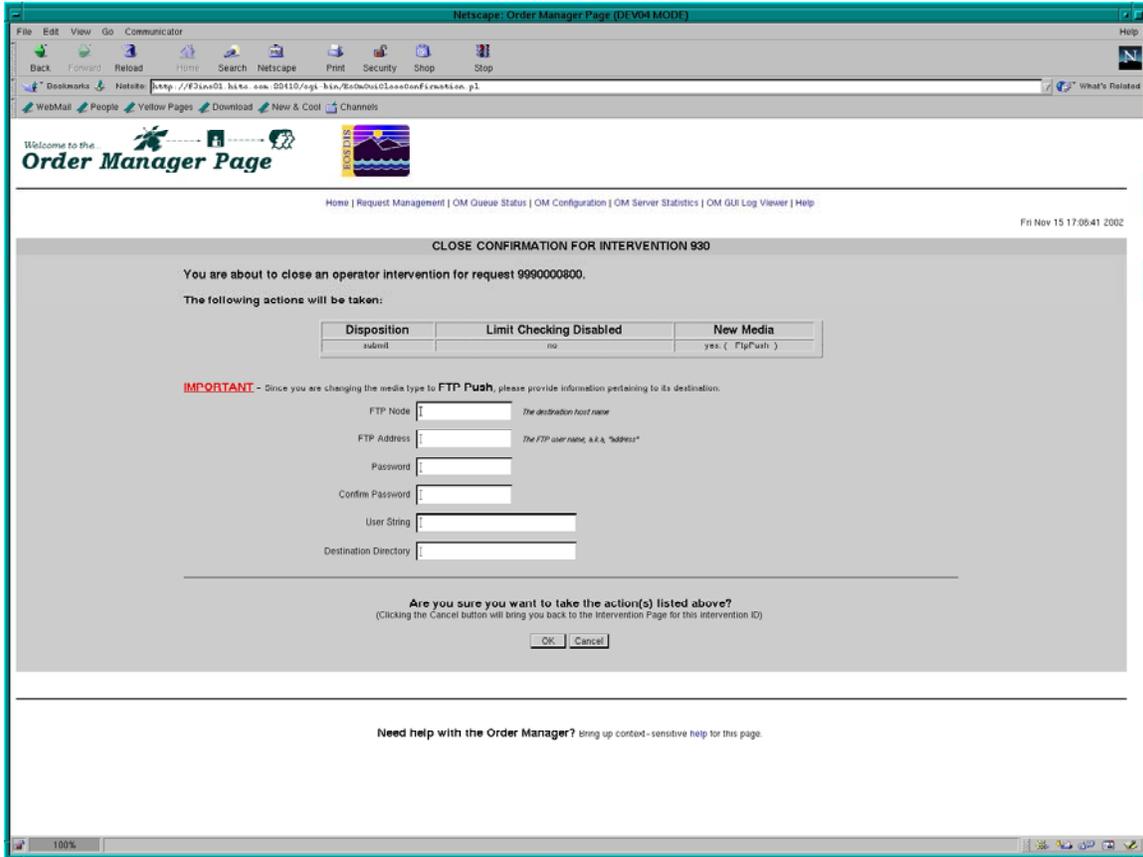


Figure 4.11.15-10. Confirmation Page for Changing Media to FTP Push

**Table 4.11.15-7. Field Descriptions for Confirmation Page
with Change of Media to FTP Push**

Field Name	Data Type	Size	Entry	Description
FTP User	Variable character	14	Required for FTP Push	The Unix login ID of the FTP recipient.
FTP Password	Variable character	15	Required for FTP Push	The Unix password for the FTP recipient.
FTP Password Verification	Variable character	15	Required for FTP Push	The Unix password verification for the FTP recipient.
FTP Host	Variable character	20	Required for FTP Push	The Unix hostname of the FTP recipient.
FTP Directory	Variable character	255	Required for FTP Push	The pathname of the Unix directory where the acquired files are to be stored.
Additional e-mail text	Character	255	Optional	Comments to be appended to the standard e-mail text.

4.11.15.2.4.4 Completed Interventions Page

The operator can click on the **View Completed Interventions** link in the Request Management page to display a list of completed interventions, as illustrated in Figure 4.11.15-11. The operator can filter the completed interventions by selecting a different user from the **Worked by** drop-down and selecting a different **Completion time** from the drop-down lists for date and time. The defaults are **all** users and completion times in the last 24 hours. The completed intervention list can be sorted by clicking on the column header links for **Order ID**, **Request ID**, **UserID**, **Media**, **Worked by** and **Created**. The default sort is **Completed**. The operator can scan through the list by clicking on navigation links. These links permit selecting specific listed blocks of interventions or jumping to the **first**, **next**, **previous** or **last** block. The number of interventions in a block is configurable. The operator can click the request ID to view the detailed information for a completed intervention. Table 4.11.15-8 provides descriptions of the fields for the Requests with Completed Interventions page.

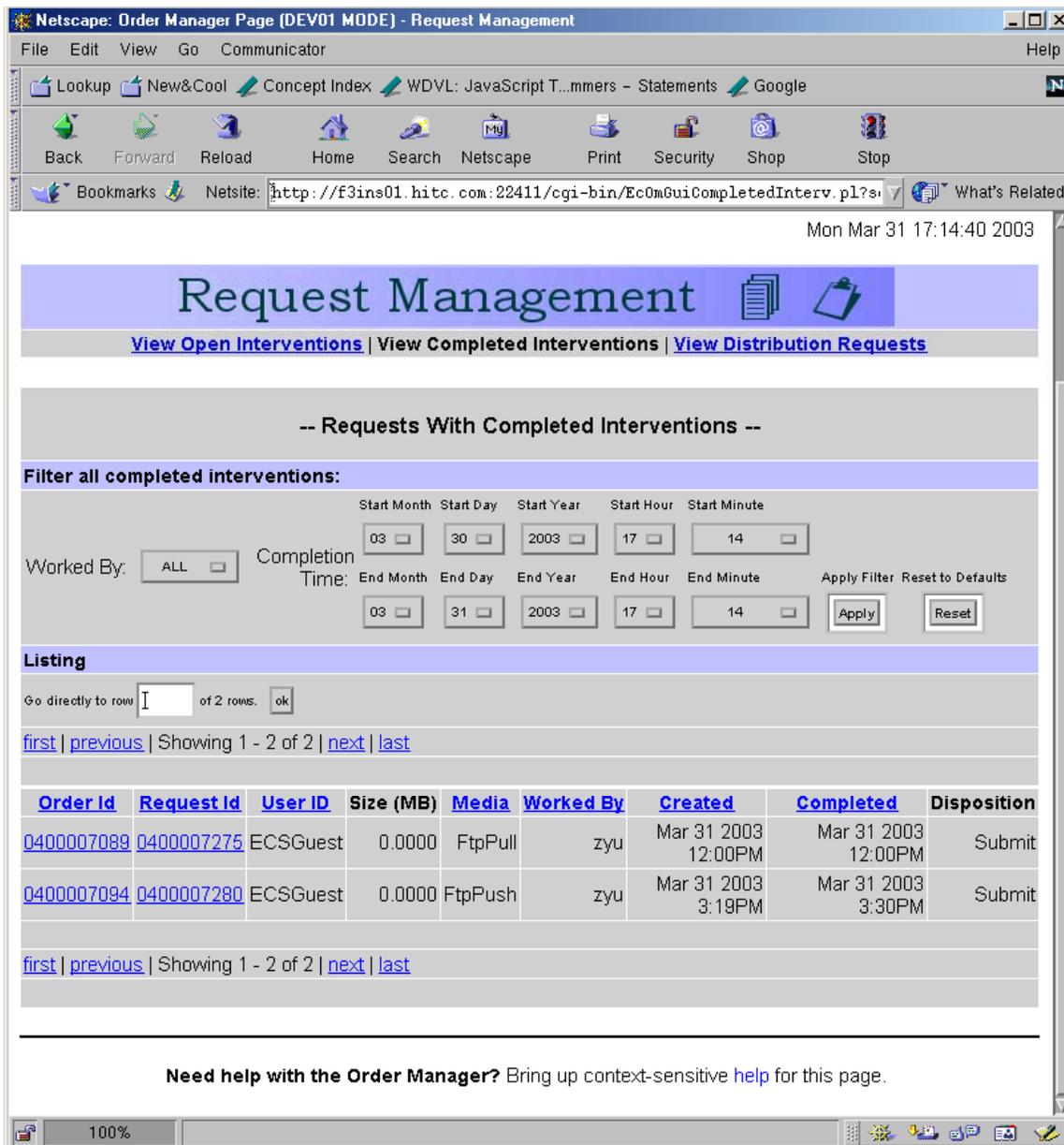


Figure 4.11.15-11. Requests with Completed Interventions Page

Table 4.11.15-8. Requests with Completed Interventions Page Field Descriptions

Field Name	Data Type	Size	Entry	Description
Worked by	Character	N/A	Optional	Select all or a specific name from pull-down list for filtering when Apply Filter button is clicked.
Completion time from/to	Character	N/A	Optional	Select from pull-down lists to specify a starting date and time and an ending date and time for filtering when Apply Filter button is clicked.
Go directly to row	Link	N/A	Optional	Selects the first row of a block of interventions to display. After entering the row, click OK to have the new block displayed.
First	Link	N/A	Optional	Selects first block of interventions.
<Previous	Link	N/A	Optional	Selects previous block of interventions.
Next>	Link	N/A	Optional	Selects next block of interventions.
Last	Link	N/A	Optional	Selects last block of interventions.

4.11.15.2.4.5 Completed Intervention Page

The operator can click on one of the request ID links displayed on the **View Completed Interventions** page to open the detailed information on a completed intervention, as shown in Figure 4.11.15-12. The operator can scan through the list by clicking on navigation links. These links permit selecting specific listed blocks of granules or jumping to the **first**, **next**, **previous** or **last** block. The number of granules in a block is configurable. This page also displays the operator notes. Table 4.11.15-9 provides a description of the entry field for the Completed Intervention page.

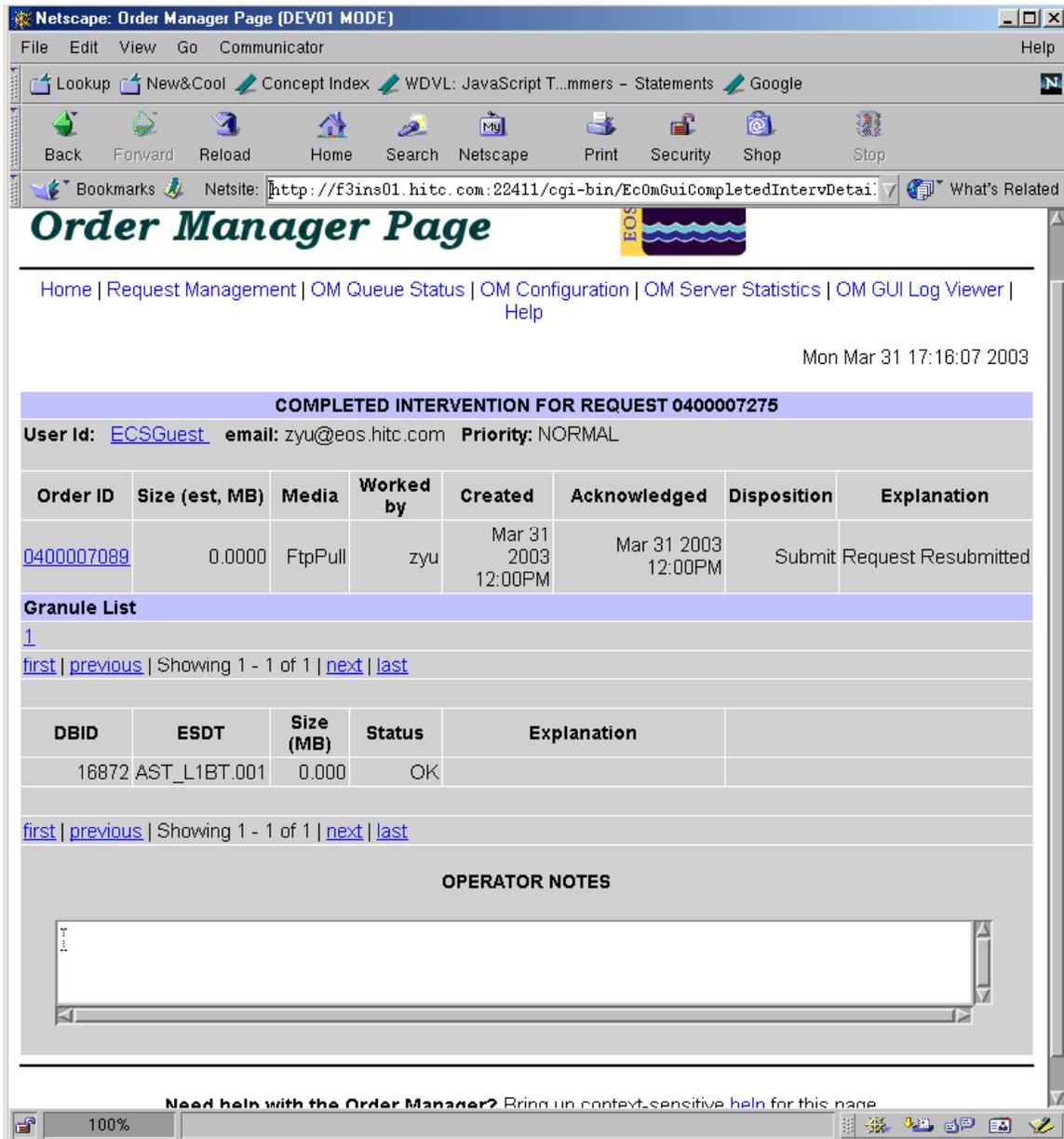


Figure 4.11.15-12. Completed Intervention for Request Page

Table 4.11.15-9. Completed Intervention for Request Page Field Description

Field Name	Data Type	Size	Entry	Description
<N ₁ > - <N ₂ >	Link	N/A	Optional	Selects a block of granules.
First	Link	N/A	Optional	Selects first block of granules.
<Previous	Link	N/A	Optional	Selects previous block of granules.
Next>	Link	N/A	Optional	Selects next block of granules.
Last	Link	N/A	Optional	Selects last block of granules.
Operator Notes	Character	255	Optional	Comments to be stored concerning the request.

4.11.15.2.4.6 View Distribution Request List Page

The operator can click on the **View Distribution Requests** in the request management page to display a list of distribution requests, as shown in Figure 4.11.15-13. The operator can filter the distribution requests by various attributes by clicking the **Apply Filter** button after selecting a filtering option and/or entering criteria for filtering. To select a filtering option, the operator can click on the **Status** option button and select or deselect one or more values from the displayed options (e.g., **All**, **Shipped**, **Pending**, **Canceled**, **Abort**, **Aborted**). If the "ALL" status is selected, requests with any status are displayed and all other status selections are ignored. The operator can enter **User ID**, **Request ID**, or **Order ID** to filter on those criteria. To filter on **Creation time**, the operator can select from pull-down lists on the date and time fields to specify date and time criteria and clicking the Apply Filter button. **To reset all filter options to their default values, click the "Set Defaults" button.** The request list can be sorted by clicking on the column header links **Request ID**, **Order ID**, **User ID**, **Status**, **Created** and **Last Update**. The operator can scan through the list by entering "Go directly to row", then clicking OK. This displays a block of requests starting with the entered row number. These links permit jumping to the **first**, **next**, **previous** or **last** block. The number of requests in a block is configurable. This page is refreshed by default every 5 minutes. The operator can change the refresh rate by selecting from the pull down list. The operator can also choose to suspend refresh by clicking on the **Suspend refresh** radio button. The operator can resubmit any request with a terminated status (including cancel, abort, aborted and shipped) by clicking on the **resubmit** button at the end of its row. Resubmitting a request that was for FtpPush in this way opens a new intervention for the request so that the operator can set new FtpPush parameters (see paragraph 4.11.15.2.4.1). The operator can view the detailed information for a distribution request by clicking on its **Request ID**. Table 4.11.15-10 provides descriptions of the fields for the Distribution Requests page.

Netscape: Order Manager Page (DEV04 MODE)

File Edit View Go Communicator Help

Lookup New&Cool Concept Index WDV: JavaScript T...mmers - Statements Google

Back Forward Reload Home Search Netscape Print Security Shop Stop

Bookmarks Netsite: http://f3ins01.hitc.com:22441/cgi-bin/EcOmGuiDistributionRequests What's Related

Request Management

[View Open Interventions](#) | [View Completed Interventions](#) | [View Distribution Requests](#)

- Distribution Requests -

Filter Leave fields blank to return all indicated columns.

Status: ALL, Abort, Aborted, Active, Bundling

Media Type: ALL

User ID: []

Request ID: []

Order ID: []

Creation Time: Start Month: 03, Start Day: 30, Start Year: 2003, Start Hour: 17; End Month: 03, End Day: 31, End Year: 2003, End Hour: 17

Listing

Go directly to row [] of 3 rows. ok

[first](#) | [previous](#) | Showing 1 - 3 of 3 | [next](#) | [last](#)

Order Type	OrderID	RequestID	Request Size (MB)	Granule Count	Media	Priority	Status	ESDT	UserID
Regular	0800001090	0800001135	5.1595	1	FtpPush	VHIGH	Shipped	AST_L1BT.001	kencindc
Regular	0800001089	0800001134	5.1595	1	FtpPush	VHIGH	Shipped	AST_L1BT.001	kencindc
Regular	0800001088	0800001133	5.1595	1	FtpPush	VHIGH	Shipped	AST_L1BT.001	kencindc

[first](#) | [previous](#) | Showing 1 - 3 of 3 | [next](#) | [last](#)

◇ Suspend refresh

◇ Auto refresh screen every 5 minutes

100%

Figure 4.11.15-13. Distribution Requests List Page

Table 4.11.15-10. Distribution Requests List Page Field Descriptions

Field Name	Data Type	Size	Entry	Description
Status	Character	N/A	Optional	Select from the scrolling list to select or deselect all or any number of specific statuses for filtering when the Apply Filter button is clicked.
User ID	Character	14	Optional	The Unix login ID of the FTP recipient, entered to specify a user ID for filtering when the Apply Filter button is clicked.
Request ID	Character	10	Optional	A specific request ID, entered to specify a request ID for filtering when the Apply Filter button is clicked.
Order ID	Character	10	Optional	A specific order ID, entered to specify an order ID for filtering when the Apply Filter button is clicked.
Creation time from/to	Character	N/A	Optional	Select from pull-down lists to specify a starting date and time and an ending date and time for filtering when the Apply Filter button is clicked.
Go directly to row	Link	N/A	Optional	Displays a block of requests starting with the entered row number when the OK button is clicked.
First	Link	N/A	Optional	Selects first block of requests
<Previous	Link	N/A	Optional	Selects previous block of requests.
Next>	Link	N/A	Optional	Selects next block of requests.
Last	Link	N/A	Optional	Selects last block of requests.
Auto-refresh screen every (minutes)	Integer	2	Optional	Interval in minutes for screen auto-refresh.

4.11.15.2.4.7 Distribution Request Details Page

The operator can click the request ID in the **View Distribution Requests** page to display the detailed information for a request, as shown in Figure 4.11.15-14. The operator can click the **userID** link to view the user profile for that user (see paragraph 4.11.15.2.4.9) or click on the **OrderID** link to view the ECS order information (see paragraph 4.11.15.2.4.8). The operator can resubmit the request if it is in a terminated state by clicking the **Resubmit this Request** button. After the operator clicks this button, the open intervention page for this request is displayed (see paragraph 4.11.15.2.4.1). The operator can scan through the granule list by clicking on navigation links. These links permit selecting specific listed blocks of granules or jumping to the **first**, **next**, **previous** or **last** block. If the Distribution Request information at the top of the page

indicates that the request is associated with a bundling order, the Granule List at the bottom reflects the contents of the current bundle.

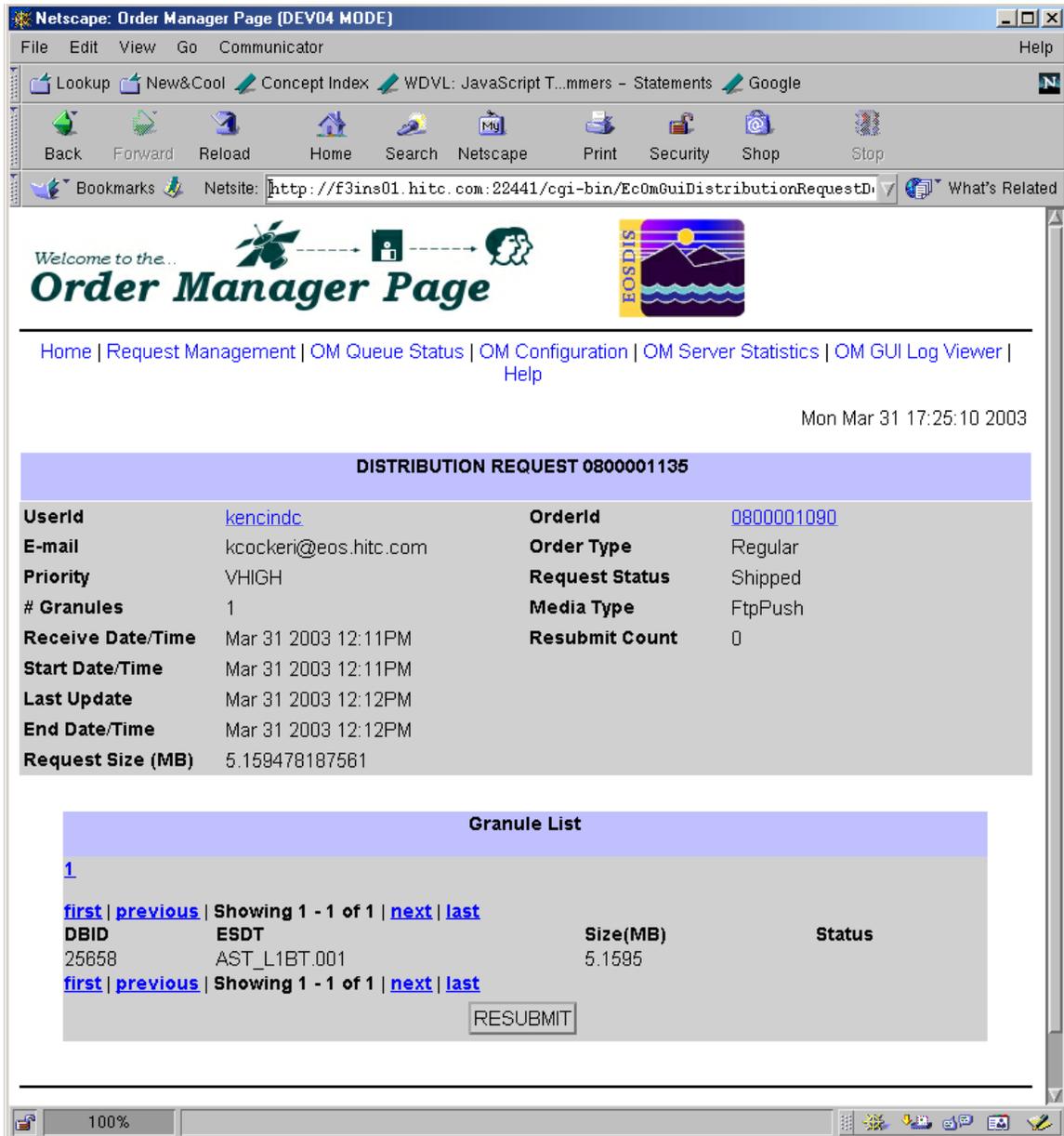


Figure 4.11.15-14. Distribution Request Details Page

4.11.15.2.4.8 ECS Order Page

The operator can click on the **Order ID** link in the Distribution Requests list page or the Distribution Request details page to open the **ECS Order** detailed information page, as illustrated in Figure 4.11.15-15. If the order is a bundling order, the operator can click the **here** link to go to the Spatial Subscription Server Web page to view and update the Bundling order. The operator can click a **Request ID** to go to **Distribution Request** details page for that request (see paragraph 4.11.15.2.4.7) or click the **User ID** to go to the **User Profile** page (see paragraph 4.11.15.2.4.9).

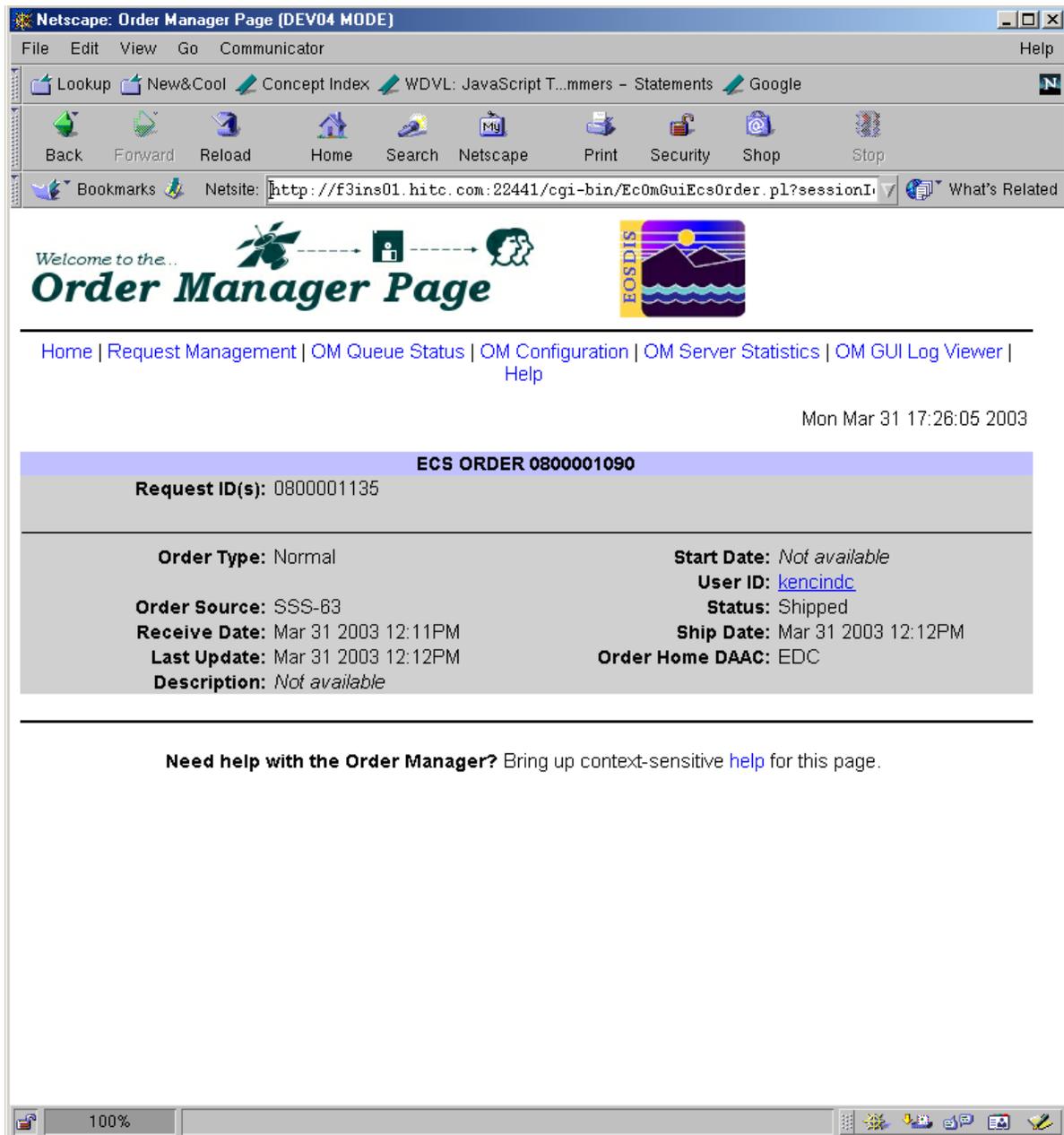


Figure 4.11.15-15. ECS Order Information Page

4.11.15.2.4.9 User Profile Page

The operator can click on the **user ID** link in the **Distribution Request** details page or the **ECS Order** details page to view the detailed information for a particular user in a **User Profile** page as shown in Figure 4.11.15-16. This page displays personal information, account information, various address information, and other data on the user.

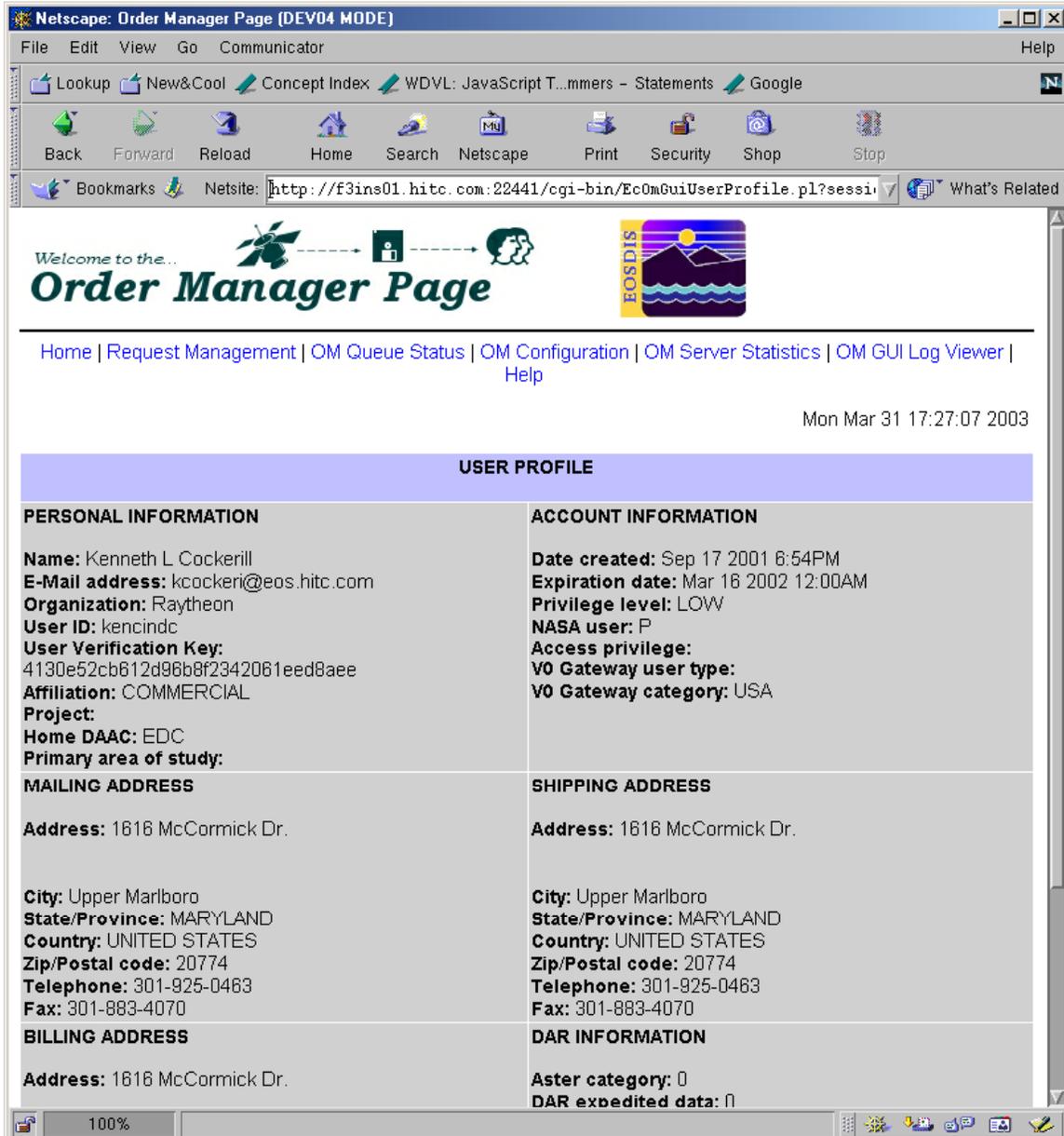


Figure 4.11.15-16. User Profile Page

4.11.15.2.4.10 Help Tab

The operator can view the help information on a particular page by clicking on the ‘**Need help with the Order Manager?**’ link at the bottom of the page, which displays a small pop-up window for help on that page. The operator may also click on the **Help** tab at the top of the page. The help information is indexed and also contains links to help on related topics. The index to available topics includes:

- What is the Order Manager Page?
- Request Management
 - Open Interventions
 - Closing or Placing on Hold an Intervention
 - Completed Interventions
 - Distribution Requests
- OM Queue Status
- OM Configuration
- OM Server Statistics
- OM Log Viewer

Figure 4.11.15-17 and Figure 4.11.15-18 provide Help Page samples.

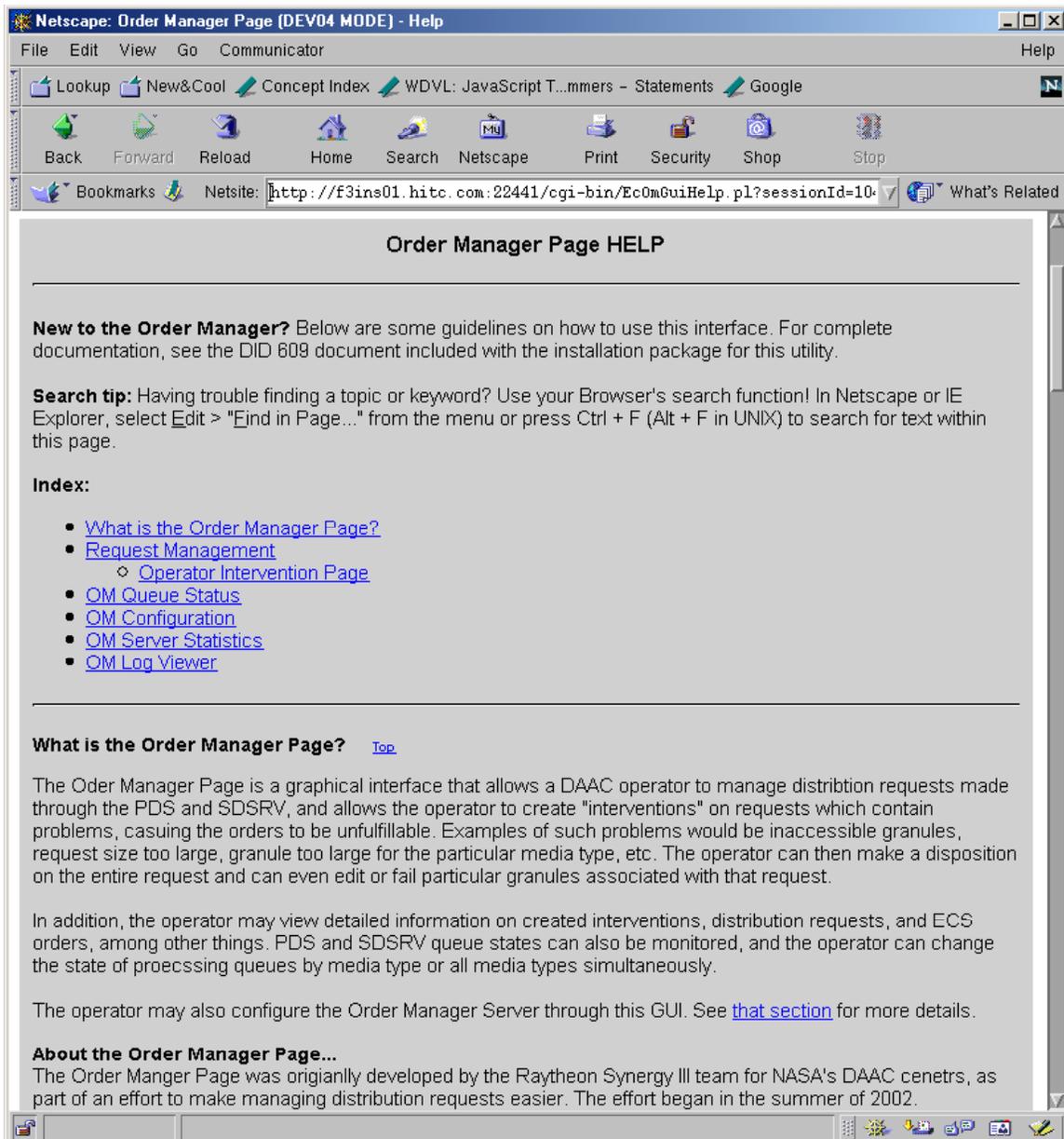


Figure 4.11.15-17. Sample Help Page

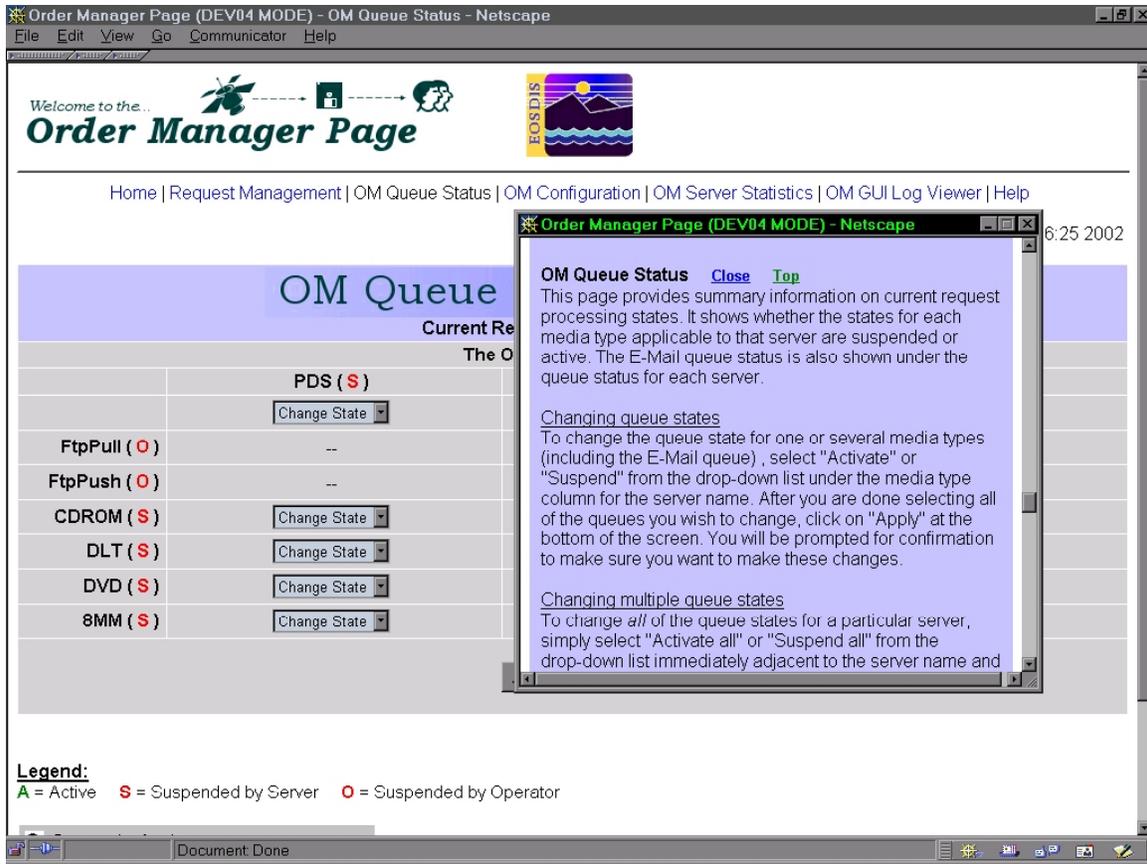


Figure 4.11.15-18. Sample Help Pop-Up Window

4.11.15.2.4.11 Order Manager GUI Log Viewer

The Log viewer is a simple diagnostics tool to aid the operator when an error occurs. It lets you view part or all of the Order Manager Page log file, which is a file specifically generated for the Order Manager GUI by the Order Manager GUI. It is usually sufficient to view the last 200-500 lines for recent activity. Simply enter the last number of lines of the log file you wish to view and click "OK." The entire log may be viewed by leaving the text box empty (or entering 0, or a number greater than or equal to the total number of lines in the file) and clicking on "OK."

Since the log file can grow to a very large size after continued use of the Order Manger Page, it is not recommended to load the entire log file all at once.

Figure 4.11.15-19 provides an example of the Log File Viewer screen.

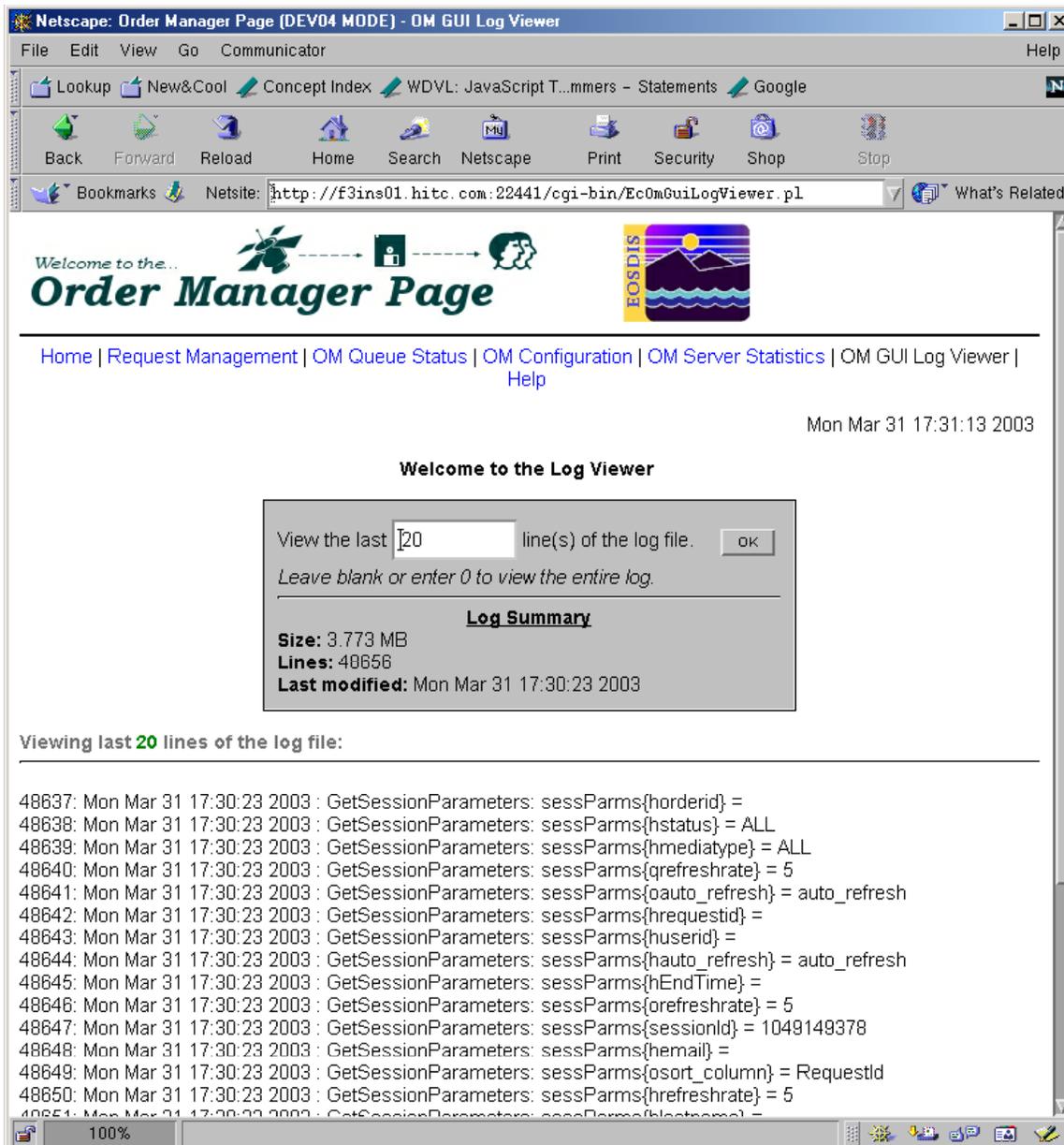


Figure 4.11.15-19. Order Manager GUI Log Viewer Example

4.11.15.3 Required Operating Environment

The following environment is required for the Order Manager GUI to work properly:

- O/S requirements are Solaris 2.5.1 or better, or Origin IRIX6.5 or better.

4.11.15.4 Databases

The OM GUI accesses the OMS and MSS Accountability databases. The Order Manager GUI exchanges data between the Web Browser and Sybase using Perl Common Gateway Interface (CGI) and DBI Modules for the interface.

4.11.15.5 Special Constraints

There are no special constraints for running the Order Manager GUI.

4.11.15.6 Outputs

There are no outputs from the Order Manager GUI, except for status and error messages.

4.11.15.7 Event and Error Messages

The Order Manager GUI writes status and error messages to the EcOmGui.log file in the directory /usr/ecs/<MODE>/CUSTOM/WWW/OMS/cgi-bin/logs.

4.11.15.8 Reports

The Order Manager GUI does not generate reports.

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4.11.16 Order Manager Command Line Utility

The Order Manager Command Line utility provides a mechanism by which the ECS Operations Staff can submit order requests into the Order Manager System (OMS) database directly without knowing whether the Order Manager Server is up or down. The order request submitted by the Command Line utility is in ODL format, which conforms to the Product Request ODL protocol in the ICD Between the EOSDIS Core System (ECS) and the Version 0 System for Interoperability, with a few extensions.

4.11.16.1 Quick Start Using the Order Manager Command Line Utility

To execute the Order Manager Command line utility, use the command line interface command below.

4.11.16.1.1 Invoking Order Manager from the Command Line Interface

To execute the Order Manager from the command line interface, use the Command Line utility syntax provided below:

```
EcSrOmCliDriverStart <MODE > <rootname of ODL files> <numRequest> [<submissionInterval>  
<dbRetries> <dbRetryInterval>]
```

The mode parameter is required to indicate the mode (i.e., OPS, TS1, or TS2) in which the utility is being run. The command line parameters supported are described in Table 4.11.16-1.

Table 4.11.16-1. Order Manager Command Line Parameters

Parameter Name	Required	Description
rootname of ODL files	Yes	Specifies the full pathname of root name of ODL files. For example, if there are two requests to be submitted concurrently, there must be two ODL files with the same root name, say odl.rqst, but different suffixes "0" and "1" for each file (i.e., there must be two files named odl.rqst.0 and odl.rqst.1 on the disk). The root name of ODL files in this case is <fullpath>/odl.rqst. The program automatically appends those suffixes for you, starting from 0.
numRequest	Yes	Specifies the number of requests the Command Line utility submits concurrently.
submissionInterval	No	Specifies how many seconds apart the requests are submitted. The default value 0 means all the requests are submitted with no submission interval (i.e., at the same time).
dbRetries	No	Specifies how many db retries the utility tries when the OMS database is inaccessible. The default value is 2 (times).
dbRetryInterval	No	Specifies how many seconds apart between retries when the OMS database is inaccessible. The default value is 10 (seconds).

4.11.16.1.2 Order Manager Command Line Utility Configuration File

The Command Line Utility has an associated configuration file with values stored in a basic PARAMETER = VALUE format. Table 4.11.16-2 describes its contents:

Table 4.11.16-2. Order Manager Configuration File Parameters

Parameter Name	Value Description
Name	EcOmSrCliDriver
ProgramID	1300005
ApplicationID	1300000
Site	DAAC Name
SubSystem	OMS
MajorVersion	1
MinorVersion	0
AppLogSize	The maximum ALOG size
AppLogLevel	ALOG level
DebugLevel	Debug log level
Release	B
PrincipalName	EcOmSrCliDriver
SDSRV_SYBASE_SERVER	Name of OMS Sybase SQL Server
SYBINTERFACES	Location of Sybase open client library interface file
DSSSrUNIXEnv	SYBASE DSQUERY
DBMAXRESULTS	Maximum database return rows
DBNAME	OMS database name
DBPASSWDSEED	1300005 (the seed used to get Command Line utility database login password)
DBUSERNAME	OmSrCliDriver (the database login name of Command Line utility)
MAX_DB_CONNECTIONS	The maximum database connections Command Line utility uses to connect to the OMS Database
DSQUERY	Name of SQS Server
SDSRV_DB_MAX_JOINS	Maximum number of database join operations
DSSSrEnv_DB	DBUSERNAME DBPASSWDSEED DBNAME DBMAXRESULTS SYBINTERFACES SDSRV_SYBASE_SERVER SDSRV_DB_MAX_JOINS
DSSSrEnv	\$DSSSrEnv_DB

4.11.16.1.3 ODL Template File

There are brackets ([]), and braces ({ }) around some of the lines and groups. The brackets mean it is optional and subject to change its contents. The braces mean it is not optional but subject to change its contents. The lines or group of lines with no brackets or braces around them mean: “do not change them.”

To use the template file:

Step 1. Copy the template file to a new file.

Step 2. Customize those lines and groups with the brackets or braces in the new file.

Step 3. Remove the brackets and braces around the lines and groups from the new file.

4.11.16.1.4 ODL Template File for “FtpPull” Media Type

```
GROUP = PRODUCT_REQUEST
MESSAGE_ID = "B1027711830"
[REQUEST_ID = "37475:27364"]
```

The above line is optional. If it is there, the value part must be in the format of “order id:request id” which you retrieve from the MSS database, in this case <order id>=37475 and <request id>=27364. If it is not there, command line utility creates an order id and request id for this request.

```
DATA_CENTER_ID = "ECS-TEST"
[ECS_AUTHENTICATOR = "labuser"]
```

The above line is optional. If it is there, the value ought to be a valid ECS user in the ECS User Registration Database. If it is not there, this request is regarded as an “ECSGuest” user.

```
GROUP = USER_AFFILIATION
CATEGORY = "USA"
TYPE = "GOVERNMENT"
END_GROUP = USER_AFFILIATION
```

```
{
GROUP = CONTACT_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
PHONE = "301-925-1042"
FAX = ""
EMAIL = "zyu@eos.hitc.com"
END_GROUP = CONTACT_ADDRESS
}
```

The above group is not optional, but the contents of each line could be customized.

```
{
GROUP = SHIPPING_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
PHONE = "301-925-1042"
FAX = ""
EMAIL = "zyu@eos.hitc.com"
```

```
END_GROUP = SHIPPING_ADDRESS
}
```

The above group is not optional, but the contents of each line could be customized.

```
{
GROUP = BILLING_ADDRESS
TITLE = ""
FIRST_NAME = "Yu"
MIDDLE_INITIAL = ""
LAST_NAME = "Zhongfei"
ORGANIZATION = ""
ADDRESS = ("abcd")
CITY = "Landover"
STATE = "MD"
ZIP = ""
COUNTRY = "UNITED STATES"
PHONE = "301-925-1042"
FAX = ""
EMAIL = "zyu@eos.hitc.com"
END_GROUP = BILLING_ADDRESS
}
```

The above group is not optional, but the contents of each line could be customized.

```
GROUP = LINE_ITEM
{DATASET_ID = "LANDSAT-7 LEVEL-0R FLOATING SCENES V002"}
```

This line could be changed to the ESDT long name matching with the granule given in the next line.

```
{PACKAGE_ID = "SC:L70R.002:23420"}
```

This line could be customized in the format of "granule type:ESDT shortname:ESDT version id:db id."

```
PROCESSING_OPTIONS = "Native Granule"
```

```
{MEDIA_TYPE = "FtpPull"}
```

This line could be customized to any media type such as CDROM, DVD, DLT, or 8MM.

```
{MEDIA_FORMAT = "FILEFORMAT"}
```

This line could be changed to match the media type given in the above line.

```
EST_COST = 777.88
```

```
[
GROUP = SUBSET_SPEC
GROUP = SPECIALIZED_CRITERIA
CRITERIA_NAME = "Band Subsetting"
CRITERIA_TYPE = "STRING"
CRITERIA_VALUE = ("QA_BAND2_PRESENT", "QA_BAND3_PRESENT",
"QA_BAND4_PRESENT", "QA_BAND5_PRESENT", "QA_BAND6_PRESENT_F1",
"QA_BAND6_PRESENT_F2", "QA_BAND7_PRESENT", "QA_BAND8_PRESENT")
END_GROUP = SPECIALIZED_CRITERIA
GROUP = SPECIALIZED_CRITERIA
CRITERIA_NAME = "Spatial Subsetting"
CRITERIA_TYPE = "GEO"
CRITERIA_VALUE = "BY_POLYGON_LOC"
GROUP = POLYGON_LOC
TANGENT_LATITUDE = 81.8895
TANGENT_LONGITUDE = 158.423
MAP_PROJECTION_TYPE = "ORTHOGRAPHIC"
LATITUDE = (83.2017, 81.4847, 80.4686, 81.8274)
LONGITUDE = (-175.078, -176.234, 155.986, 151.309)
WG_ZOOM = 2
END_GROUP = POLYGON_LOC
END_GROUP = SPECIALIZED_CRITERIA
GROUP = SPECIALIZED_CRITERIA
```

```

    CRITERIA_NAME = "Scan Line Size"
    CRITERIA_TYPE = "INTEGER"
    CRITERIA_VALUE = 1104
    END_GROUP = SPECIALIZED_CRITERIA
    END_GROUP = SUBSET_SPEC
]

```

This group is optional, indicates the subset option goes along with this granule.

```

GROUP = PATH_ROW_LOC
    PATH = (119)
    ROW = (233)
END_GROUP = PATH_ROW_LOC
GROUP = POLYGON_LOC
    LATITUDE = (70.31, 69.6, 64.78, 65.36)
    LONGITUDE = (-80.91, -85.44, 136.97, 133.18)
    CENTROID_LAT = 81.94
    CENTROID_LON = -170.59
    POLE_INCLUDED = "X"
END_GROUP = POLYGON_LOC
END_GROUP = LINE_ITEM

```

The LINE_ITEM group could be repeated if there are more granules to be ordered in one request.

```

GROUP = MONITOR
    SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
    TX_CLIENT = ("1027711832", "939137")
END_GROUP = MONITOR
GROUP = VERSION
    SENDER_VERSION = "imswww-3_4b_6"
    PROTOCOL_VERSION = 3.2
    IMS_STAFF = "1"
END_GROUP = VERSION
[PRIORITY = "HIGH"]

```

This line is optional. The default is LOW with the possible values being LOW, NORMAL, HIGH, VHIGH and XPRESS.

```
[USERSTRING = "TESTFOR"]
```

This line is optional. But if it is there, the length must be less than 80 characters.

```
[NOTIFY = "zyu@eos.hitc.com"]
```

This line is optional. But if it is there, the length must be less than 255 characters.

```
[DDISTNOTIFYTYPE = "MAIL"]
```

This line is optional.

```

END_GROUP = PRODUCT_REQUEST
END

```

4.11.16.1.5 ODL Template File for "FtpPush" Media Type

```

GROUP = PRODUCT_REQUEST
    MESSAGE_ID = "B1027711830"
    [REQUEST_ID = "37475:27364"]
    DATA_CENTER_ID = "ECS-TEST"
    [ECS_AUTHENTICATOR = "labuser"]
GROUP = USER_AFFILIATION
    CATEGORY = "USA"
    TYPE = "GOVERNMENT"
END_GROUP = USER_AFFILIATION
{
GROUP = CONTACT_ADDRESS
    TITLE = ""
    FIRST_NAME = "Yu"
    MIDDLE_INITIAL = ""

```

```

    LAST_NAME = "Zhongfei"
    ORGANIZATION = ""
    ADDRESS = ("abcd")
    CITY = "Landover"
    STATE = "MD"
    ZIP = ""
    COUNTRY = "UNITED STATES"
    PHONE = "301-925-1042"
    FAX = ""
    EMAIL = "zyu@eos.hitc.com"
  END_GROUP = CONTACT_ADDRESS
}
{
  GROUP = SHIPPING_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
  FAX = ""
  EMAIL = "zyu@eos.hitc.com"
  END_GROUP = SHIPPING_ADDRESS
}
{
  GROUP = BILLING_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
  FAX = ""
  EMAIL = "zyu@eos.hitc.com"
  END_GROUP = BILLING_ADDRESS
}
  GROUP = LINE_ITEM
  {DATASET_ID = "JPL-GENERATED ASTER LEVEL 1B DATA - THERMAL IR CHANNELS ONLY
V001"}
  {PACKAGE_ID = "SC:AST_L1BT.001:7644"}
  PROCESSING_OPTIONS = "Native Granule"
  {MEDIA_TYPE = "FtpPush"}
  {MEDIA_FORMAT = "FILEFORMAT"}
  EST_COST = 777.88

```

```

GROUP = ORDER_SPEC
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPHOST"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "origin"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPPASSWORD"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "Sept6A02"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPPUSHDEST"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "/devdata1/DEV01/PushArea"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "FTPUSER"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "labuser"}
  END_GROUP = SPECIALIZED_CRITERIA
  GROUP = SPECIALIZED_CRITERIA
    CRITERIA_NAME = "USERSTRING"
    CRITERIA_TYPE = "STRING"
    {CRITERIA_VALUE = "ABCD"}
  END_GROUP = SPECIALIZED_CRITERIA
END_GROUP = ORDER_SPEC

```

The **ORDER_SPEC** group is designed for specifying all the FtpPush parameters, it must be there for the FtpPush Media Type.

```

GROUP = RANGE_LOC
  NORTH_LATITUDE = 10.12
  WEST_LONGITUDE = -130.12
  SOUTH_LATITUDE = -10.12
  EAST_LONGITUDE = 63.1
END_GROUP = RANGE_LOC
END_GROUP = LINE_ITEM
GROUP = MONITOR
  SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
  TX_CLIENT = ("1027711832", "939137")
END_GROUP = MONITOR
GROUP = VERSION
  SENDER_VERSION = "imswww-3_4b_6"
  PROTOCOL_VERSION = 3.2
  IMS_STAFF = "1"
END_GROUP = VERSION
[PRIORITY = "HIGH"]
[USERSTRING = "TESTFOR"]
[NOTIFY = "zyu@eos.hitc.com"]
[DDISTNOTIFYTYPE = "MAIL"]
END_GROUP = PRODUCT_REQUEST
END

```

4.11.16.1.6 ODL Template File for "CDROM" Media Type

```

GROUP = PRODUCT_REQUEST
  MESSAGE_ID = "B1027711830"

```

```
[REQUEST_ID = "37475:27364"]
DATA_CENTER_ID = "ECS-TEST"
[ECS_AUTHENTICATOR = "labuser"]
GROUP = USER_AFFILIATION
  CATEGORY = "USA"
  TYPE = "GOVERNMENT"
END_GROUP = USER_AFFILIATION
{
GROUP = CONTACT_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
  FAX = ""
  EMAIL = "zyu@eos.hitc.com"
END_GROUP = CONTACT_ADDRESS
}
{
GROUP = SHIPPING_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
  FAX = ""
  EMAIL = "zyu@eos.hitc.com"
END_GROUP = SHIPPING_ADDRESS
}
{
GROUP = BILLING_ADDRESS
  TITLE = ""
  FIRST_NAME = "Yu"
  MIDDLE_INITIAL = ""
  LAST_NAME = "Zhongfei"
  ORGANIZATION = ""
  ADDRESS = ("abcd")
  CITY = "Landover"
  STATE = "MD"
  ZIP = ""
  COUNTRY = "UNITED STATES"
  PHONE = "301-925-1042"
```

```

    FAX = ""
    EMAIL = "zyu@eos.hitc.com"
    END_GROUP = BILLING_ADDRESS
}
GROUP = LINE_ITEM
{DATASET_ID = "JPL-GENERATED ASTER LEVEL 1B DATA - THERMAL IR CHANNELS ONLY
V001"}
{PACKAGE_ID = "SC:AST_L1BT.001:7644"}
PROCESSING_OPTIONS = "Native Granule"
{MEDIA_TYPE = "CDROM"}
The above line specifies the CDROM media type, and the next line specifies the matching media format.
{MEDIA_FORMAT = "RockRidge"}
EST_COST = 777.88
END_GROUP = LINE_ITEM
GROUP = MONITOR
SESSION_ID = "cheyenne.hitc.com:24496:20020726:153027"
TX_CLIENT = ("1027711832", "939137")
END_GROUP = MONITOR
GROUP = VERSION
SENDER_VERSION = "imswww-3_4b_6"
PROTOCOL_VERSION = 3.2
IMS_STAFF = "1"
END_GROUP = VERSION
[PRIORITY = "HIGH"]
[USERSTRING = "TESTFOR"]
[NOTIFY = "zyu@eos.hitc.com"]
[DDISTNOTIFYTYPE = "MAIL"]
END_GROUP = PRODUCT_REQUEST
END

```

4.11.16.1.7 Examples

Example 1

```
EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 1
```

This means one file called **odl.rqst.0** in directory `/usr/ecs/<MODE>/CUSTOM/data/OMS/template/`

Example 2

```
EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 10
```

This means ten files must be named, **odl.rqst.0, odl.rqst.1, odl.rqst.2, odl, rqst.3, odl.rqst.4, odl.rqst.5, odl.rqst.6, odl.rqst.7, odl.rqst.8, odl.rqst.9** in directory `/usr/ecs/<MODE>/CUSTOM/data/OMS/template/`

Example 3

```
EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 3 5
```

There are 3 requests to be submitted with 5 seconds submission interval.

Example 4

```
EcSrOmCliDriverStart <MODE> /usr/ecs/<MODE>/CUSTOM/data/OMS/template/odl.rqst 3 5
10 20
```

There are 3 requests to be submitted with 5 seconds submission interval and 5 db retries and 20 seconds db retry interval if database is inaccessible.

4.11.16.2 Order Manager Command Line Utility Main Screen

There is no main screen for this utility. This is a command line interface only.

4.11.16.3 Required Operating Environment

The Command Line Utility runs on the Sun Solaris platform.

4.11.16.4 Databases

Table 4.11.16-3 lists the databases, stored procedures and tables used by the Command Line utility.

Table 4.11.16-3. Order Manager Data Bases

Database	Stored Procedure	Table(s)
EcOmDB_<MODE>	OmCreateRequest	OmRequest
		OmRequestOptions
	OmInsertGranule	OmGranule
	OmInsertSubSetInfo	OmSubSettingInfo
	OmInsertAction	OmActionQueue
mss_acct_db_<MODE>		EcAcRequest
		EcAcAddress

4.11.16.5 Special Constraints

Table 4.11.16-4 lists the COTS product dependencies for the Command Line Utility.

Table 4.11.16-4. Order Manager COTS Products Dependencies

Product Dependency	Protocols Used	Comments
OMS Database	SQL	Via SQL server machine
Sybase Open Client library	Sybase client/server communication	Requires proper baseline version of Open Client library

4.11.16.6 Outputs

The Command Line Utility does not produce any reports but sends messages to the operator via a log file.

4.11.16.7 Event and Error Messages

The Command Line Utility writes information useful to the operator to a log file. The file is stored in the `/usr/ecs/<MODE>/CUSTOM/logs` directory and is named `EcOmSrCliDriverDebug.log` and `EcOmSrCliDriver.ALOG`. The utility renames the debug log and ALOG files to the name with current time stamp suffixes if they already exist and create new debug log and ALOG files.

There are two types of messages written to the utility's log file: errors and informative messages. Error messages include information about program internal/external faults, unplanned disconnects with the Sybase Server, general database errors, unable to open ODL files due permission or nonexistence, and configuration file problems. Informative messages include when the utility starts and stops and progress messages. All messages are date and time stamped.

If there are syntax errors in command-line invocation, a usage message is printed to the screen.

4.11.16.8 Reports

The Command Line Utility does not produce any reports.

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