

23. Asset Smart Property Equipment Management System (SMART|PEMS)

23.1 Asset Smart Property Equipment Management System

Asset Smart Property Equipment Management System provides a FAR compliant, single integrated foundation, and a web- based interface for EED's asset management needs. This software integrates mission critical real time data with process improvements to provide seamless asset investment planning, asset record management, acquisition, maintenance, EIN Structures, location and asset change tracking, property moves, shipments and installations, utilization status, consumable tracking, disposal and real time asset reporting—empowering the EED property team and equipment end users to make more timely and cost effective decisions, leading to better infrastructure management and customer support.

The Asset Smart system provides a mobile interface which syncs directly to the property database. The mobile scanner promotes the use of barcode readers which will scan the EIN barcode and query the corresponding number against the database to provide information associated with a particular asset. This capability will enhance the mandatory physical inventory process conducted annually by the EED team through drastically reducing time and increasing accuracy.

With the Asset Smart tool, EED will be able to manage and organize all CAP, GFE and IAGP property assets and financial information in a single unified repository that maintains full interactive updates, field validation, and online history of all property transactions. With Asset Smarts Customizable security-protected menus, customizable navigation links and shortcuts, and direct screen to screen navigation, Asset Smart will fit the needs of all end users from Property Administrators to System Hardware and Software engineers.

This document will discuss Asset Smarts primary functionality and operational uses. For more information regarding the more advanced or more specific modules and functions please refer to the Asset Smart PEMS help manual.

23.2 Asset Smart User Tool Overview

23.2.1 Navigating Asset Smart User Tool

Asset Smart is located at the following URL

<http://155.157.31.126/smart36/>

To Log on, you must enter your User ID and Password on the Logon page to access the Main Page.

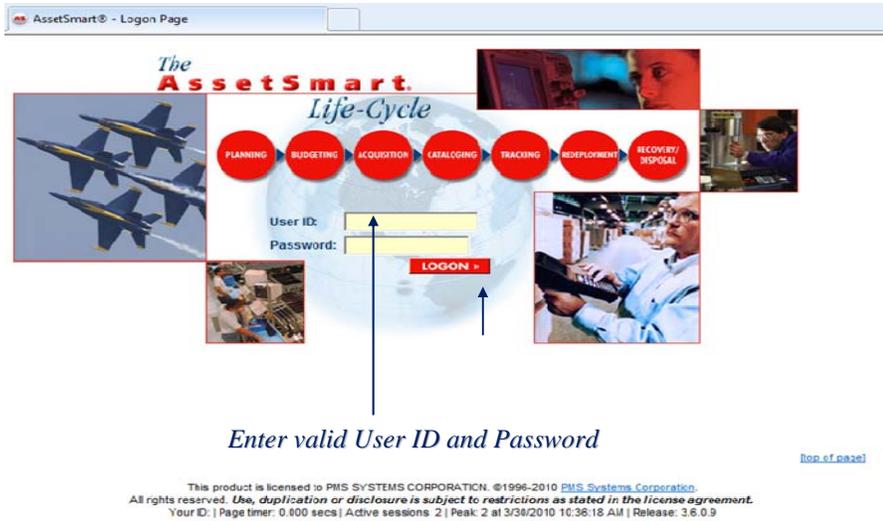


Figure 23-1. Login Screen

Main page appears after log-on

The main Navigation feature is the top menu bar, used for accessing screens with drop-down menus.



Figure 23-2. Menu Bar

Two major regions are featured in a transaction screen: Header and Body



Figure 23-3. Screen Regions

A transaction screen’s header may also be divided as **Begin Transaction** and **Direct Navigation** Transactions are identified by title and command code. Transaction execution begins by entering a value in the search key entry area.



Figure 23-4. Transaction Headers

Navigate from screen to screen with Direct Navigation

The direct navigation area's top line usually features icons hyperlinked to screens related sequentially within the workflow; you can optionally enter a valid command code in the command entry area and click the red arrow button to directly access any screen; key values from the current item are carried over. You can alternatively enter values in the single-cycle key(s) entry area and access different items; multiple keys must be separated by a forward slash '/'; in the illustration below, see key values 'JK8009' and '001' carried over to the search key entry areas of invoked screen **PAD1: Control Number** and **Partition Sec Code**, respectively. The Related Asset Information hyperlinks dynamically appear when additional records exist for the item currently viewed.

The screenshot illustrates the direct navigation process. At the top, a 'Direct Navigation' bar contains 'PREV', 'TOGGLE', and 'NEXT' buttons. A 'Command' field contains 'PAD1', and a 'Single-cycle key(s) entry area' contains 'JK8009/001'. A red arrow button is positioned to the right of the command field. A callout box labeled 'Go to PMED4' is shown with a hand icon clicking the red arrow button. Below the navigation bar, a list of 'Related Asset Information' hyperlinks is visible, including 'Accessories (PM15)', 'Accountability Data (PM7)', 'Calibration Status (CMA1)', 'Extended Description (PM4)', 'Financial Data (PM5)', 'IT Configuration Data (PM38)', 'Life-Cycle History (PM19)', 'Maintenance Master (MM1)', 'Move-Transfer History (PM11)', 'Multimedia References (PM59)', 'Reservations (PM18)', and 'Transaction History (PM17)'. A callout box labeled 'Add Basic Asset/Equipment Rec [- (PAD1)]' points to the 'PAD1' command. Below the navigation bar, a form for 'Add Basic Asset/Equipment Rec [- (PAD1)]' is shown, with fields for 'Control Number' (JK8009) and 'Partition Sec Code' (001: DEFAULT PARTITION). A 'Message' box at the bottom reads 'Press Commit Button To Complete Cmd'. A red arrow button is shown at the bottom left of the screenshot.

Direct navigation

Click any hyperlink to access named screen

Alt+C accesses command entry

Click to access screen

Single-cycle key(s) entry area

Related Asset Information

- Accessories (PM15)
- Accountability Data (PM7)
- Calibration Status (CMA1)
- Extended Description (PM4)
- Financial Data (PM5)
- IT Configuration Data (PM38)
- Life-Cycle History (PM19)
- Maintenance Master (MM1)
- Move-Transfer History (PM11)
- Multimedia References (PM59)
- Reservations (PM18)
- Transaction History (PM17)

Direct Navigation

PREV TOGGLE NEXT

Command

PAD1

JK8009/001

Add Basic Asset/Equipment Rec [- (PAD1)]

Control Number: JK8009

Partition Sec Code: 001: DEFAULT PARTITION

Auto-Assign Number: Y N

Begin Add **Clear Form**

Message: **Press Commit Button To Complete Cmd**

ASSET IDENTIFICATION

Manufacturer Code: Base



Click this button when entering a command and optional single-cycle key(s) in the Direct Navigation area to access invoked screen

Figure 23-5. Direct Navigation

Navigate to Transactions

The transactions screens are invoked by clicking on the property link located on the top menu bar. From there it allows you to perform one of the three main features, Search, View and Maintain.

23.2.2 Asset Smart System Transactions

Inquiry Transactions

There are two types of inquiry transactions: basic displays that involve just one record, and searches which usually involve sets of records or sub-records. Often, searches result in displays that are several pages long. Some searches allow the possibility of partial string searching, which enables the user to make inquiries based on fragments of search keys. Finally, search transactions exist with multiple search keys to help locate specific records.

Update Transactions

Update transactions are further subdivided into data entry and delete. Data entry transactions either add data and/or records to the database (add transactions) or modify a pre-existing record (modify transactions), whereas delete transactions remove records from the database.

Add Transactions

Add transactions add records to the database by entering record key(s) such as an EIN Number along with a variety of data. Although the user has the option to enter them manually, new record keys, are often automatically created if not selected by the user.

The record key will later be used as a search key to access that record, whether for display, modification or other purposes. The majority of the data entered is subject to editing or validation before the transaction can be committed and the database updated. Some of the data must be entered (mandatory entry). Some of the data defaults automatically.

Modify Transactions

Modify transactions modify records that have been added through add transactions. Typically, whereas an add transaction may only be executed once for a particular record, modify transactions may be executed any number of times using the EIN entered during the add transaction. However, not all data entry fields can be modified once values have been added to them; furthermore, entry fields that carry actual values can only be blanked or zeroed by entering a not-code [^] in the first input position.

23.2.2.1 Search Transaction

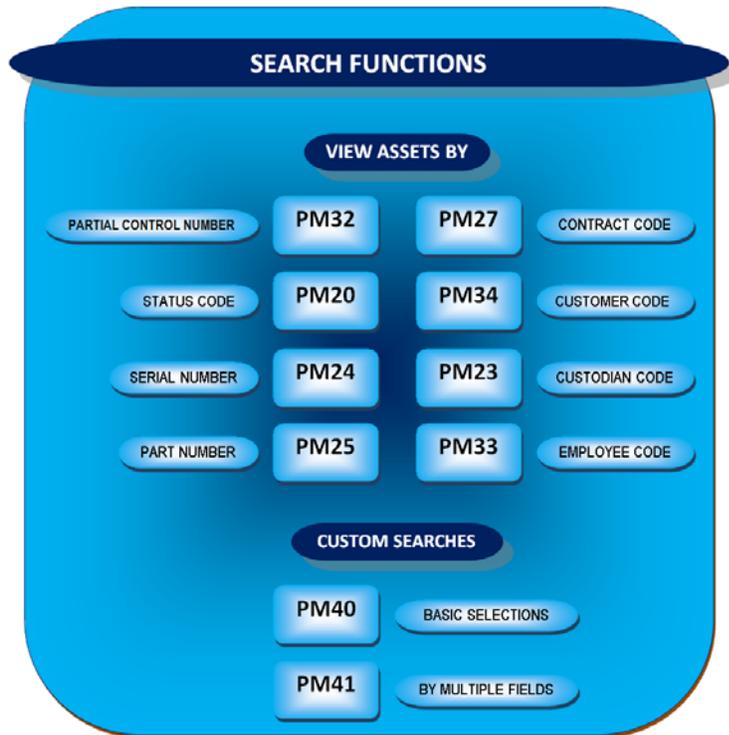


Figure 23-6. Search Functions

- **Search By Multiple Fields**

PM41 lets you search Master Property Records by means of a selection of entry keys. Use the drop-down lists and pop-ups provided, when available, to enter your search values. Any combination of searches is supported as long as you enter at least one search key. Your records will be displayed sequentially by number. You have the option to sort and/or print and/or export as .csv (data repository) files these one-line summaries, by clicking on the related links.

Browse Assets By Control No [- PM32]

Control Number: %

Partition Sec Code: ALL: ALL PARTITIONS (GLOBAL)

Search Clear Form

Direct Navigation
Command
Single-Cycle Key(s)

Message: Page Overflow-Total Items = 14919

PSC	Control Number	Ownership	Building	Short Mfr	Short Modl	Short Noun	Asst Stat
001	0000001			1	1	1	DOWN
001	0000002			1	1	1	OPEN
001	00001028		101	TEKTRONIX	AVG1-88	GENERATOR,VI	REQUEST
001	001B			ACS COMPTR	486-33	COMPUTER,PC,	INTRANS
001	01111	CAD		TOSHIBA	TXM3401A4	DRIVE,CD-ROM	DOWN
001	012345	CO	S25	TEKTRONIX	2465	SCOPE,GENERA	VENDOR
001	01262010			1	1	1	ACTIVE
001	02222010			1	1	1	ACTIVE
001	02222010A			10026	1	1	ACTIVE
001	0308						ACTIVE
001	0309						ACTIVE
001	0310						ACTIVE
001	032660				ESH	STATIC METER	SCHED
001	04082010					1	DISPOSAL
001	04082010A						ACTIVE
001	04092010		502	HP	478A	DETECTOR,MIC	OPEN
001	067284		1000	ROCKWELLIC	VIR30A	RECEIVER	REQUEST

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Figure 23-8. Partial Search Results

Enter a leading string to narrow your search

A partial string can originate from the beginning, anywhere in the middle, or the end of the search key.

To narrow down your search, the easiest option is to simply enter the first few characters of the search key, i.e., a *leading string*.

Browse Assets By Control No [- PM32]

Control Number:

Partition Sec Code: ALL: ALL PARTITIONS (GLOBAL)

Search Clear Form

Direct Navigation
Command
Single-Cycle Key(s)

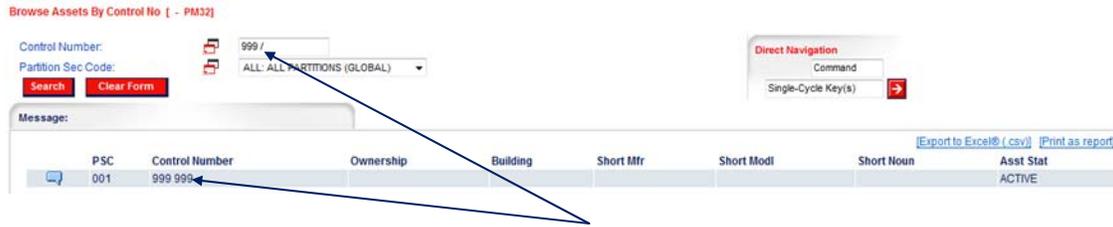
Message: Page Overflow-Total Items = 19

PSC	Control Number	Ownership	Building	Short Mfr	Short Modl	Short Noun	Asst Stat
001	999	CO	100	HP	180A	SCOPE,GENERA	OPEN
001	999 999						ACTIVE
001	99999			DELL	ACF	SOFTWARE,DAT	INLAB
001	999999			PMISC	ACF	SOFTWARE,DAT	OPEN
001	9999999			PM	ACF	SOFTWARE,DAT	OPEN
001	99999999			PMISC	ACF	SOFTWARE,DAT	OPEN
001	999999999			PMISC	ACF	SOFTWARE,DAT	OPEN
001	999999999999			PMISC	ACF	SOFTWARE,DAT	OPEN
001	9999T001A			PMISC	ACF	SOFTWARE,DAT	SCHED
311	9990			TEKTRONIX	R520A	SCOPE,VECTOR	FOR-SALE
311	9991			TEKTRONIX	R5440	SCOPE,GENERA	FOR-SALE
311	9992			TEKTRONIX	R7103	SCOPE,GENERA	FOR-SALE
311	9993			TEKTRONIX	R7603	SCOPE,GENERA	FOR-SALE
311	9994			TEKTRONIX	R7603-20	SCOPE,GENERA	FOR-SALE
311	9995			TEKTRONIX	R7613	SCOPE,STORAG	FOR-SALE
311	9996			TEKTRONIX	R7623	SCOPE,STORAG	FOR-SALE
311	9997			TEKTRONIX	R7633	SCOPE,STORAG	FOR-SALE

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Enter '999' to display all control numbers starting with this leading string

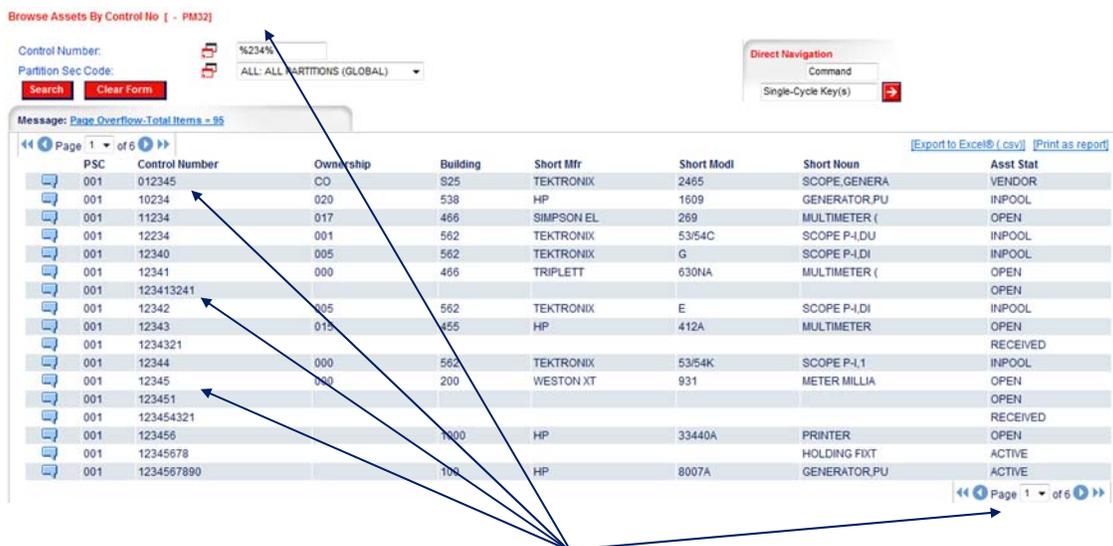
Follow a leading string that has trailing spaces with a [%] or [/]



Enter '999 /' or '999 %' to display all control numbers starting with '999' followed by a space

Place a [%] before and after a string

In order to search via a string originating from anywhere (including the beginning and the end) within the search key, the string must be led by a percentage sign or surrounded with percentage signs.



Enter '%234%' or '%234' to display all control numbers containing that string

Figure 23-9. Leading String Search

Search screen types display one-line summaries of the resulted records

You may avail yourself of capabilities such as scrolling through pages, sorting your results, exporting them to an Excel file and printing them. Each resulted record may also be accessed with related screens.

Search Assets By Status (PM20) Search Results - Print View - Windows Internet Explorer

AssetSmart
global asset management software

Report Created 4/30/2010 4:45:46 PM by ADMINSTRATOR\ASMTSMARY
Licensee: PM20 SYSTEMS CORPORATION License Number: 0381

Search Assets By Status (PM20)

Asset Status: ACTIVE

Total Items: 128

PSC	Control Number	Short Mfr	Short Modl	Short Noun	Stat Date	Expire Dt
001	31262010				1/25/2010	2/1/2010
001	10222010	T			2/22/2010	2/28/2010
001	10222010A	10020			2/22/2010	2/28/2010
001	0308				1/7/2010	1/11/2010
001	0309				1/7/2010	1/11/2010
001	0310				1/7/2010	1/11/2010
001	04082010A				4/8/2010	4/13/2010
001	1	TEKTRONIX	7811	CHANGED	2/2/2010	
001	10003	TEKTRONIX	585A	SCOPE GENERAL PLURP	2/15/2010	10/29/2008
001	100111	PMSC	SC	ASSET DBMWT: SOFTWARE DATABASE	2/22/2010	
001	100247AL				3/20/2010	
001	10025	HART SCI	5504(400)	THERMOMETER DIGITAL	3/12/2010	
001	10026	HP	3458A	MULTIMETER DIGITAL	3/4/2010	
001	10029	FLUKE	5700A	CALIBRATOR VOLT-AMP	3/8/2010	
001	100456			POWER SUPPLY	3/13/2010	3/22/2010
001	10075	HP	721A	POWER SUPPLY	3/13/2010	3/22/2010

File Download

Do you want to open or save this file?
Name: temp_01x_pml20pmssuser4427695.csv
Type: Microsoft Office Excel 97-2003 Worksheet, 7.43KB
From: devuser.2

Search Assets By Status [- PM20]

Asset Status: ACTIVE

Status Date - From:
Status Date - To:
Expire Date - From:
Expire Date - To:

Search Clear Form

Click header hyperlink to sort results

Message: Page Overflow-Total Items = 3524

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PSC	Control Number	Short Mfr	Short Modl	Short Noun	Stat Date	Expire Dt
001	10	TEKTRONIX	310A	SCOPE,GENERAL PURP	7/1/2008	
001	100			DRILL JIG	5/5/2009	5/11/2009
001	1000	TELENETICS	ED208	MODEM DATA	10/16/2008	10/20/2008
001	1000000				12/23/2008	12/25/2008
001	1000000000000000				2/2/2009	2/6/2009
001	10000009			W	5/8/2008	5/12/2008
001	100003	HP	1609	GENERATOR,PULSE	2/11/2008	
001	10001	TEKTRONIX	585A	SCOPE,GENERAL PURP	11/5/2008	4/21/2008
001	10002	TEKTRONIX	585A	SCOPE,GENERAL PURP	10/6/2008	
001	100020	HP	180A	SCOPE,GENERAL PURP	5/15/2009	5/19/2009
001	10003	TEKTRONIX	585A	SCOPE,GENERAL PURP	11/30/2008	10/20/2008
001	10004	TEKTRONIX	10A2	SCOPE P-I,DUAL TRAC	8/6/2008	12/17/2007
001	10008	TEKTRONIX	2465	SCOPE,GENERAL PURP	12/8/2008	
001	10009	HP	5245L	COUNTER,MULTI-FUNCT	9/16/2004	
001	1000A	TELENET	670AAAB2702	BOARD, TP	11/21/1987	
001	10012	HP	150-400	POWER SUPPLY,SPECIA	6/25/2008	
001	10014	HP	5245L	COUNTER,MULTI-FUNCT	4/11/2009	4/6/2009

Direct Navigation

Command
Single-Cycle Key(s)

Click icon to access related screen links

- Display Asset Tracking Data
- Display Cal Lab Tracking Data
- Modify Cal Item/Plan
- Move Equipment Item
- Change Asset Status
- Equipment Pool Loan/Issue
- Return Equipment Item To Pool

Click any hyperlink to access screen

Go to first page

Go to previous page

Click to access desired page

Page count

Go to next page

Go to last page

Figure 23-10. Related Screens Searches

23.2.2.2 View Transaction

PM1 lets you view data from a Master Property Record by means of its EIN Number. The fields displayed by PM1 have previously been entered/updated with PAD1/2, PBD2, PCDA2 and PCDB2.

click **Property** on the top menu bar
 select **View** on the drop-down menu bar
 click **Acquisition Data** on the drop-down menu
 enter an EIN number
 click **View**

Display Basic Asset Data [- PM1]

Control Number: PM7 PAD2 PM2

Message:

Manufacturer/Source [HEWLETT PACKARD CO](#)
 Model Number [4000-4150](#)
 Noun Description [CAPACITOR, FIXED,CERAMIC \(08724\)](#)
 Catalog Code [01604T 0A20A](#)

OWNERSHIP		CONTRACT	
Partition Sec Code	001	Acquisition Contract Code - Base	
Plant	28	Contract Type Code	
Record Access Code	FMA	Current Contract Code - Base	
Ownership Code	CEX	Contract Type Code	
Property Type Code	CIP	Lease Vendor Code - Base	FB5606
Division	DR4		
Owning Department	400	WARRANTY	
Cost Center	AERO	Warranty Flag	W
		Warranty Date - From	5/11/2009
		Warranty Date - To	5/11/2010
		Install Date	5/11/2009
		Open/Close Flag	0

ACQUISITION / IDENTIFICATION	
Acquisition Vendor Code - Base	FB4800
Acquisition Date	5/5/2009
Acquisition Cost	9990.00
Acquisition Document	ACQ-DOC
Document Reference Type	PCD
Purchase Order - Acquisition	PODOC
Po Line Number	5
Serial Number	43567
Cross-Reference	CROSS252

Direct Navigation:

Figure 23-11. Viewing an Asset record

23.2.2.3 Maintain Transaction

Add and modify records in your database

The body of basic update (add/modify) type screens features data entry fields and flag field radio buttons where values may be entered or set interactively. These values are often edited, validated, and/or defaulted according to individual conditions specified in the transaction

descriptions of each module. The field status buttons to the left of entry fields specify what type of operation is required or will occur and can often be clicked to access nested search screens. Many mandatory and defaulted fields are subject to validation and/or editing as well. To ensure valid values are entered, combo boxes and calendar pop-ups are extensively employed.

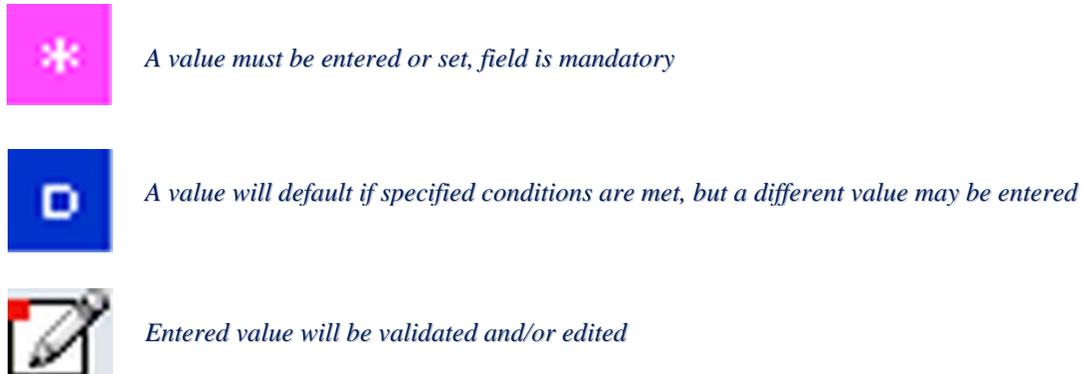
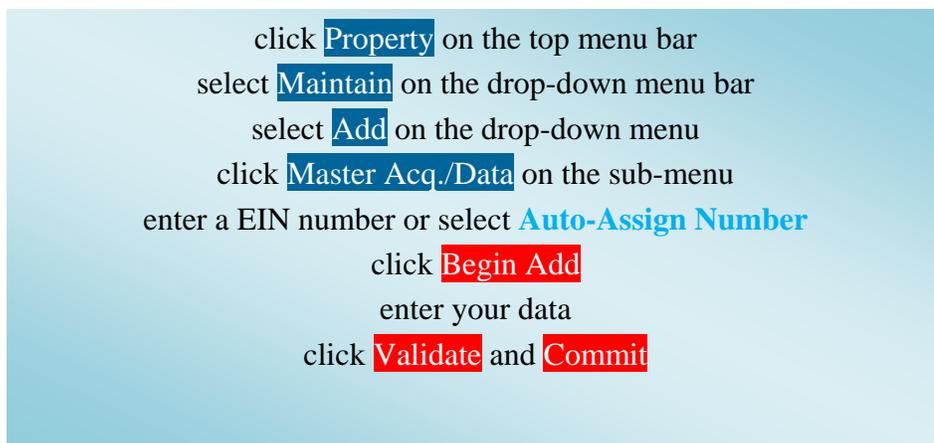


Figure 23-12. Add and Maintain – Icon Legend

Adding a Record

PAD1 sets up a Master Property Record by means of a new EIN number which you can either enter yourself or have assigned automatically. You can only use this function once per record; if you need to modify the data entered after you have committed PAD1, use PAD2 (select Modify instead of Add on the drop-down menu). On PAD2, you'll need to enter EIN number of the record you want to update. You can view the fields updated by PAD1 and similar functions with PM1, PM2, and PM3.



Add Basic Asset/Equipment Rec [- PAD1]

Control Number: 23456810
 Partition Sec Code: 001: DEFAULT PARTITION
 Auto-Assign Number: Y N

Begin Add **Clear Form**

Message: Add Transaction Completed
 Manufacturer/Source: HEWLETT PACKARD CO
 Model Number: 4000-4150
 Noun Description: CAPACITOR, FIXED,CERAMIC (08724)
 Catalog Code: 01604T 0A20A

ASSET IDENTIFICATION		
Manufacturer Code - Base	01604T	01604T
Model Code	0A20A	0A20A
Manufacturer Name	HEWLETT PACKARD CO	HEWLETT PACKARD CO
Model Series		
Model Number	4000-4150	4000-4150
Alternate Model Type		
Noun Major	CAPACITOR	CAPACITOR
Noun Minor	FIXED,CERAMIC	FIXED,CERAMIC
Serial Number		
Asset Status	ACTIVE	ACTIVE

ACQUISITION		
Purchase Order - Acquisition	PODOC	PODOC
Po Line Number	5	5
Po Date	8/12/2009	08122009
Acquisition Vendor Code - Base	FB4800	FB4800
Acquisition Date	8/10/2009	08102009
Acquisition Cost	999.00	999
Estimated Cost Flag		<input type="radio"/> Yes <input checked="" type="radio"/> No
Install Date	8/12/2009	08122009
Record Access Code	FMA	FMA: FORMING AND MACHINING TOOLS

OWNERSHIP		
Division	DR4	DR4
Owning Department	400	400
Cost Center	AERO	AERO
Ownership Code	CEX	CEX: COMPANY EXPENSE

Validate **Commit**

PM1 PBD2

Related Asset Information
 Life-Cycle History (PM19)
 Transaction History (PM17)

Direct Navigation
 Home
 Command
 Single-Cycle Key(s)

Figure 23-13. Adding a record

Modifying a record

PBD2 adds tracking data to a pre-existing Master Property Record by means of its EIN number. The Partition Security Code will default according to the Control Number. You can use this function as many times as you need to. You can make this record part of a System by entering a EIN number in the System field. Enter the same EIN number of the record you're updating to make it the top component (level '0') of its System; enter a different Control Number to make it a child record (System Level is assigned automatically). Provided that this record has no lower components or children, you can remove it from a System -- by entering the 'not' code (^) in the System field -- or change the System number. You can view the whole hierarchy with PM21 and build a System with PBSD4 Click the Create button to access RMMD1 and add a multimedia object such as a PDF file or other resource, view it with. View references to multimedia with PM59 and on PM2. View other fields updated by PBD2 on PM1 and PM2.

click **Property** on the top menu bar
 select **Maintain** on the drop-down menu bar
 select **Add** or **Modify** on the drop-down menu
 click **Tracking Data** on the sub-menu
 enter a EIN number

Mod Asset Tracking Data [- PB02]

Control Number: 252
 Partition Sec Code: 001: DEFAULT PARTITION

Retrieve Clear Form

Message: **Completed-Srs Loc Discrepancies Exist**

Manufacturer/Source: HEWLETT PACKARD CO
 Model Number: 4003-4150
 Noun Description: CAPACITOR, FIXED, CERAMIC (08724)
 Catalog Code: 01604T 0A20A

Asset Status	ACTIVE	Location Code	0030	Lease Vendor Code - Base	FB5006
Status Date	5/11/2009	Plant/Site	28	Lease Contract Code - Base	LM1001
Status Expire Date	5/15/2009	Area	51	Warranty Date - From	5/11/2009
Company	A&D CO.	Building	07QLAA	Warranty Date - To	5/11/2010
Group	B&C G.	Floor	1	Warranty Flag	W
Custodian Code	SHEN	Room	2	Service Vendor Code - Base	FB5000
Using Department	C-DEPT	Column	3	Service Contract Code - Base	BRUCE001
Employee Code	PADOLF	Bin	45	Media Reference	
		System	00001028	Customer Code - Base	C1000
		System Level	2	Customer Code - Suffix	00000
		Internal Location	CORP	Work Order Reference	111

Validate Commit

Related Asset Information: Life-Cycle History (PM13), Transaction History (PM17)

Direct Navigation: PREVIOUS, TOOL, NEXT

Command, Single-Cycle Key(s)

PAD2 PM1 PCDA2

Figure 23-14. Modifying a Record

23.3 Basic Validation

23.3.1 Error Messages and Field Status Buttons

As part of the validation process, the interactive message area will display instructions when an error occurs. In the example below, a mandatory entry field has been left empty. Notice how a validation error button appears next to the entry field being validated.

Follow error message instructions

Message: **Mandatory Field - An Entry Is Required**

Manufacturer/Source: VENTURI
 Model Number: VENTURI.75IN
 Noun Description: FLOWMETER, VENTURI F.

DATE / TIME
 Transaction Date: 3/8/2010
 Transaction Time: 3:29:00 PM

OTHER REFERENCES
 Document Reference: []

Command, Single-Cycle Key(s)

This button appears next to an entry field when a validation error occurs

Figure 23-15. Error messages

23.3.2 Blank Out Values with the Not-Code

The option exists to blank out a value from a data entry field using the not-code [^] by entering SHIFT+6 and clicking the Validate button. Due to data entry logic, some fields will feature a button signaling that a field cannot be blanked out.



When this button appears, a valid value must be entered



Enter these two keys together in a data entry field and press ENTER to blank out its value



When this button appears, an entered value may not be blanked out

Figure 23-16. Error messages- Icon Legend

23.3.3 All Entered Values Must be Valid Before Committing Your Transaction to the Database

Click the Validate button at any time to ensure your values have been accepted. When green checkbox buttons appear signaling it's safe to update your database, click the Commit button and you're done.

Move Equipment Item [- PM04]

Control Number: UK100

Retrieve Clear Form

Message: Press Commit Button To Complete Cmd

Manufacturer/Source NONE
Model Number VENTURIO.75IN
Noun Description FLOWMETER,VENTURI F.

DATE / TIME	
Transaction Date	3/8/2010
Transaction Time	3:29:00 PM
Actual Transaction Date	<input checked="" type="checkbox"/>
Actual Transaction Time	<input checked="" type="checkbox"/> 0946

ASSET STATUS	
Asset Status	ACTIVE
Status Date	3/8/2010
Status Expire Date	<input checked="" type="checkbox"/> 041310
	<input checked="" type="checkbox"/> 051310

LOCATION	
Location Code	1234
Plant	2800
Area	100
Building	111111
Floor	1
Room	109
Column	V14F4
Internal Location	<input checked="" type="checkbox"/>
Bin	<input checked="" type="checkbox"/>
System	<input checked="" type="checkbox"/>
System Level	<input checked="" type="checkbox"/>

Validate Commit

Related Asset Information
Calibration Status (CMA-1)
Life-Cycle History (PM19)
Transaction History (PM17)

Direct Navigation
F4:V
F5:R
F6:K
F7:K
F8:K
F9:K
F10:K
F11:K
F12:K
F13:K
F14:K
F15:K
F16:K
F17:K
F18:K
F19:K
F20:K
F21:K
F22:K
F23:K
F24:K
F25:K
F26:K
F27:K
F28:K
F29:K
F30:K
F31:K
F32:K
F33:K
F34:K
F35:K
F36:K
F37:K
F38:K
F39:K
F40:K
F41:K
F42:K
F43:K
F44:K
F45:K
F46:K
F47:K
F48:K
F49:K
F50:K
F51:K
F52:K
F53:K
F54:K
F55:K
F56:K
F57:K
F58:K
F59:K
F60:K
F61:K
F62:K
F63:K
F64:K
F65:K
F66:K
F67:K
F68:K
F69:K
F70:K
F71:K
F72:K
F73:K
F74:K
F75:K
F76:K
F77:K
F78:K
F79:K
F80:K
F81:K
F82:K
F83:K
F84:K
F85:K
F86:K
F87:K
F88:K
F89:K
F90:K
F91:K
F92:K
F93:K
F94:K
F95:K
F96:K
F97:K
F98:K
F99:K
F100:K

Command
Single-Cycle Key(s)

OTHER REFERENCES	
Document Reference	<input checked="" type="checkbox"/> DOCREF1
Document Reference Type	<input checked="" type="checkbox"/> PMO
Notes One	<input checked="" type="checkbox"/> LOCATION CHANGE/MOVE



Click this button or enter Alt+V to have the system validate your entries



When these buttons appear, it is safe to click the commit button and update the



Click this button or enter Alt+S to update a record in the database

Figure 23-17. Field Validation

23.4 Handling Errors

The diagram below outlines common errors and how to go about correcting them.

Some errors, however, are beyond the user's immediate ability to respond. Error messages such as 'I/O ERROR...' signify that the data entered is incompatible with the database itself. Contact AssetSmart for technical assistance if this occurs. A 'NOT AUTHORIZED FOR COMMAND' message occurs when the user attempts to access unauthorized records.

Asset Smart prompts you for self-correction. When illegal operations occur: (a) a validation error button appears next to the entry field(s) in question; (b) the interactive message area displays pertinent instructions; (c) the cursor is automatically positioned inside the first erroneously handled entry field.

COMMON ERRORS	TRANSACTION TYPE	REMEDY
Incorrect Search Key	INQUIRY	Use pop-up buttons
	MODIFY	Use search screens to find a valid key
	DELETE	
Record Already Exists	ADD	Add a different record or use a modify transaction
Higher Level Record Does Not Exist	ADD	To add a work order to an item, you must have added the item first
Lower Level Data Exist	DELETE	A work order with task sub-records may not be deleted, or those records must be deleted first
Record Is Open	DELETE	Close the record before deleting
Record Is Closed	MODIFY	Re-open the record
Invalid Data	ADD	Use pop-up buttons, combo boxes
	MODIFY	Check notes section for editing rules and or related RTF screens
Illogical Data	ADD	Check chronology (dates and times), quantities and other identifying values of entries such as status for consistency
	MODIFY	
Blank Mandatory Fields	ADD	Must enter some value
	MODIFY	

Figure 23-18. Correcting Errors

23.5 Field Definitions

EIN

1

Attribute	Description	Data Type	Data Display Length	Field Input Length	Entry Mode for State	AssetSmart Mapping Field	Table	Screen
EIN	Identifier for an EIN inventory item	Char	20	20		Control-Num-Sec(30)	EQ09	PCDA2
Parent EIN	EIN of the item where this item is a component of	Char	20	20		Control-Num-Sec(30)	EQ09	PCDA2
Rack EIN	EIN of the rack where this item is a component of	Char	20	20		Control-Num-Sec(30)	EQ09	PCDA2
Serial No	Serial number of the item	Char	30	30		Serial-Number(25)	EQ09	PAD1
Cost	Purchase cost of the item	Decimal	10.2	10.2		Cost-Acquisition(10.2)	EQ09	PAD1
Acquisition Cost	Cost to the government	Decimal	10.2	10.2		Cost-Acquisition(10.2)	QT06	PAD1
Description	Manufacture's or vendor's description of the item	Char	60	60		Noun-Major(24)/Noun Minor(24)	EQ09	PAD1
Part No	Manufacture's or vendor's part number	Char	34	34		Part-Number-Curr(40)	QT06	PGDB2
HW/SW Code	Code for classifying items according to source of inventory	Char	2	2		Category-Code(6)	EQ09	PCDA2
Host Name	Name of the machine with which the item is associated	Char	30	30		Name-Host(25)	QN01	PAND1
ECN Num	Government tag number	Char	20	20		Commodity-Code(20)	EQ09	PCDA2
Receive Date	Date item was received from vendor	Date				Date-Acquisition(8)	EQ09	PAD1
Quantity	Amount of items received	Char	5	5		Qty-Total(11)	EQ09	PCDB2
NASA Contract	Identifier designating the government contract used for this item	Char	15	15		Cont-Code-Cur-Base(8)	EQ09	PGD1
Status	Status of the item	Char				Status-Asset(8)	EQ09	PAD1
CCR	Purchase request order	Char	6	6		Requisition-Number(20)	EQ09	PCDB2
PO Number	Identifier of the purchase order against the item was received	Char	10	10		Purchase-Order-Acq(20)	EQ09	PAD1
Comment	Miscellaneous information specific to the item	Char	60	60		Text-Desc-1(40) -Text-Desc-10(40)	QD02	PED2
IAGP	Government transfer document number from GAP to IAGP	Char	10	10		Document-Ref(16)/Document-Ref-Type(3)	EQ09	PCDA2
GFP		Char	10	10		Owner-Code(3)	EQ09	PAD1
EEB EIN	Pervious year's tag number	Char	20	20				
Audit Date	Date the item was physically inventoried last	Date				Date-Inventory(8)	EQ09	PCDA2
Installation Date	Date the item was installed	Date				Date-Installed(8)	EQ09	PAD1
20-4 Control #		Char	6	6		Control-No-Cust(20)	QT06	PGD1
Employee ID	The ID of the employee	Char	6	6		Employee-Code(10)	EQ09	PBD2

User

2

Attribute	Description	Data Type	Data Display Length	Field Input Length	Entry Mode for State	AssetSmart Mapping Field	Table	Screen
Employee Name	Name of the employee whom received the item	Char	30	30		Empl-Name-Last(25)/Empl-Name-First(25)	REM6	REDA1
Employee ID	The ID of the employee	Char	6	6		Employee-Code(10)	REM6	REDA1
Employee Program	The project name the employee is assigned	Char	30	30		Shop-Code(6)/Description(30)	REM6	REDB2
Employee Building	The building where the employee works	Char	15	15		Loc-Mail-Stop(10)	REM6	REDA1
Employee Room	The room where the employee works	Char	15	15		Loc-Mail-Stop(10)	REM6	REDA1

Location

3

Attribute	Description	Data Type	Data Display Length	Field Input Length	Entry Mode for State	AssetSmart Mapping Field	Table	Screen
Building	Building where the item is located	Char	15	15		Location-Building(6)/Description(30)	EQ09/RBL3	PBD2/RBLD1
City	City where the item is located	Char	15	15		City(30)	RBL3	RBLD1
State	State where the item is located	Char	2	2		State-Code(2)	RBL3	RBLD1
Room	Room where the item is located	Char	15	15		Location-Room(6)	EQ09	PBD2
Program	Project the item is assigned to	Char	30	30		Org-Dept-Use(6)/Org-Dept-Name(30)	EQ09	PBD2

Vendor

4

Attribute	Description	Data Type	Data Display Length	Field Input Length	Entry Mode for State	AssetSmart Mapping Field	Table	Screen
Vendor ID	Code for a vendor from whom items are purchased	Char	6	6		Vend-Code-Base(10)	EQ09/RVN3	PAD1/RVND1
Vendor Name	Full name of a vendor from whom items are purchased	Char	30	30		Vendor-Name(30)	RVN3	RVND1
Vendor City	City where the vendor is located	Char	15	15		City(30)	RVN3	RVND1
Vendor State	State where the vendor is located	Char	2	2		State-Code(2)	RVN3	RVND1

Manufacturer

5

Attribute	Description	Data Type	Data Display Length	Field Input Length	Entry Mode for State	AssetSmart Mapping Field	Table	Screen
Manufacturer Name	Name of the manufacturer	Char	30	30		Mfgr-Name(20)	EQ09	PAD1
Manufacturer ID	Code for the manufacturer whom built the item	Char	6	6		Mfgr-Code-Cat-Base(6)	EQ09	PAD1

Maintenance

6

Attribute	Description	Data Type	Data Display Length	Field Input Length	Entry Mode for State	AssetSmart Mapping Field	Table	Screen
Maintenance Vendor	Vendor whom will provide the services	Char	30	30		Vendor-Name(30)	RVN3	RVND1

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24. Maintenance of Configuration Parameters

This chapter concerns the maintenance of configuration parameters that system servers access when they are started. The configuration parameters are manageable through a *Configuration Registry*. The Configuration Registry Server provides a single interface to retrieve configuration attribute-value pairs for system servers from the Configuration Registry Database, via a Sybase Server. The Configuration Registry Server maintains an internal representation of the tree in which configuration attribute-value pairs are stored. General configuration parameters used by many servers are stored in higher nodes in the tree. Parameters specific to a single system server are contained in the leaf nodes of the tree.

The EED project provides a script tool to load the Configuration Registry database from data in configuration files. This loading is a one-time event to populate the Registry database with the information contained in .CFG files. Once the Configuration Registry is loaded, if the configuration files are moved, renamed, or otherwise made inaccessible to the software, the software goes to the Configuration Registry to obtain needed configuration parameters. There is also a Configuration Registry GUI to view and edit configuration data in the database. Changes to the Configuration Registry are typically under the control of Configuration Management and the Database Administrator.

24.1 Parameter Change Control Procedure

Configuration parameters are 'controlled' by either DAAC or the EDF. Proposed changes to these configuration parameters originate from the controller of these parameters, in most cases. The one exception is when new software/hardware patches or versions warrant new configuration parameters, or changes to the existing parameters. In cases where one of the entities, i.e., DAAC or EDF, proposes a change to an existing configuration parameter which it does not control, then the requesting entity follows the appropriate EED change request, resolution and CCB approval process of the entity that controls that parameter.

Configuration parameter baseline documents define information on various areas of the system. These areas include, but are not limited to the following:

- Custom code configuration, program and application configuration files and parameters.
- Sybase server databases.
- Operating System - build, options of auto mount, and kernel configuration files and parameters
- COTS configuration files and parameters.

The information captured is site- and host-specific, wherever applicable. Whenever possible the following 'types' of information are captured:

- Configuration parameters and files.
- Definitions and descriptions of parameters.

- Recommended value.
- Value or value ranges; i.e., common range across multiple DAACs or DAAC-specific range.
- Impacts associated with changing a parameter.
- Controlling entity of the parameter (e.g., DAAC or EDF).

The baseline documents are maintained by EED CM, and are posted on the EED Baseline Information System (EBIS) Site (<http://pete.hitc.com/baseline/>).

All changes to system software/hardware patches and versions are controlled by the relevant CCBs. (Refer to Section 9.2 of this document).

A prototype (non-baseline) version of the configuration information may be posted on the EBIS and mirror site for EED and DAAC review prior to the CCB approval process, as long as the posted information is clearly identified as 'prototype' to distinguish it from the EED baseline information.

24.2 Overview of Configuration Parameter Files

Various types of source files are used to modify the configuration parameters at the Riverdale functionality labs and at the DAACs. These are as follows:

- The 'mkcfg' scripts contain persistent values of configuration parameters, and only EED developers are allowed to modify them.
- The '.cfgparms', '.extparms' and '.dbparms' files, which are resident in ClearCase and contain persistent values of configuration parameters for the EDF. The versions of these files delivered to the DAACs contain DAAC-specific and mode-specific values. The .cfgparms files hold parameters used to generate the standard .CFG files. The .extparms files contain parameters to generate non-standard (or extension) files, and are not used by most subsystems. The .dbparms files hold parameters used in database operations.
- The .cfgparms file patches the .cfgparms, .extparms and .dbparms. Changes are from one version to another, (e.g., 7.21, 7.22, 7.23...).
- The '.rgypatch' file patches the registry database.

24.3 Deployment and Baseline Maintenance

Registry changes can be made by anyone having the DBO privileges. Any changes to the configuration parameter baseline, such as addition, deletion or modifications of parameters, should follow the respective CCB process.

System servers use the .CFG files, if present in /usr/ecs/<mode>/CUSTOM/cfg directory when the server is started. Otherwise the servers use the registry database for configuration parameters. Therefore, moving or renaming the .CFG files causes servers to use the registry the next time they restart. This allows the registry to be brought online, and taken offline on a server-by-server basis.

Maintenance of parameters in the registry must be via the registry GUI or via database patches. Changes to the .CFG files or the .cfgparms files will not result in changes to the registry unless the files are re-imported into the registry. The ability to create .CFG files during the "make config" phase of ECS Assist processing can be switched off (via a configuration parameter). The addition, deletion and modification of values in the registry are achieved either by the GUI or by a database patch script.

The EDF maintains the "baseline" registry database that is used to generate the database patches. The baseline registry database has the structure of a generic DAAC, using functional host names rather than actual host names. It contains the master values of parameters owned by the EDF, and contains null values for parameters owned by the configuration management process. EED developers make changes to the baseline database via the software configuration management process. The database contains an attribute tree for each release, and release patch supported by the EDF. Prior to a release or a release patch, a configuration patch script is created by comparing the tree for the new release with the tree for the release being replaced. The patch script contains a series of add, update and delete statements, tagged to indicate the sites they pertain to. The primary purpose of the patch is to enhance the process of parameter additions, modifications or deletions to the DAAC configuration. The patch is also used to propagate value changes for parameters owned by the EDF.

24.3.1 How to Run a Mkcfg

There are two ways to run a Mkcfg. The first way is to manually execute the Mkcfgs from the command line and the second is to use EcsAssist. Refer to Section 4.1.5, ECS Assistant, of the 609-EED-001 document for information on how to use EcsAssist to run a Mkcfg. To run a Mkcfg manually do the following:

1. `cd /usr/ecs/<MODE>/CUSTOM/utilities`
2. Locate the Mkcfg you wish to run by using the `ls` command (`ls -l *Mkcfg`).
3. Run the Mkcfg by running the appropriate script followed by the MODE. For example:
`EcPIPRGeneratorMkcfg TS1`

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25. EOSDIS Service Interface (DataAccess)

25.1 EOSDIS Service Interface (DataAccess)

The EOSDIS Service Interface (ESI) is an interface that permits access to data and services residing within an ECS archive. Recent enhancements to the ECS system have resulted in virtually all archived data being available online for immediate access. ESI takes advantage of this by providing access not only to the data, but also to services on that data.

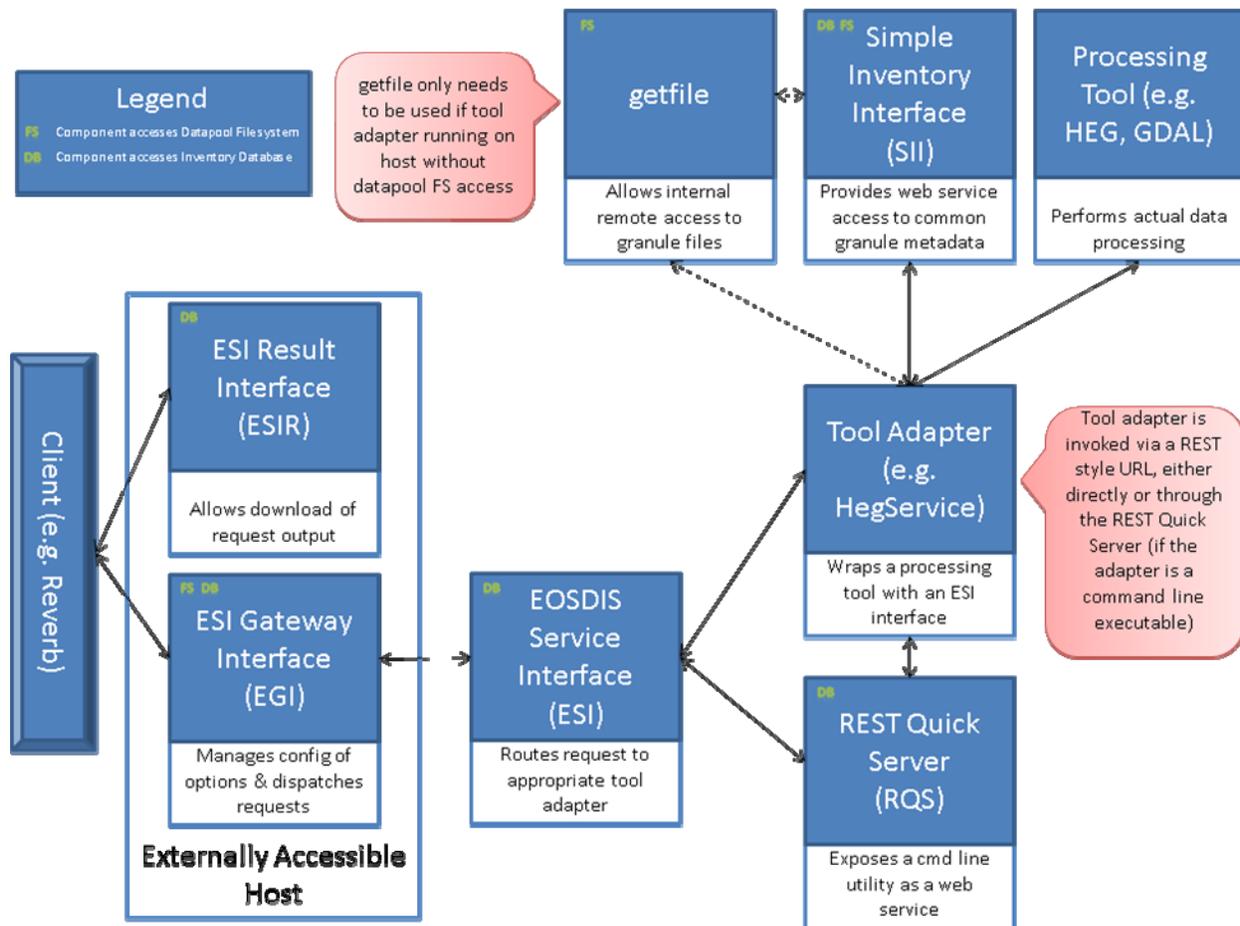


Figure 25.1-1. Architectural Overview of the DataAccess System

25.2 Configuring the DataAccess System

The ECS DataAccess system is designed to be easily configurable and extendable. The primary mechanism for configuring the system is the Data Access GUI. The GUI is a modern, dynamic interface which allows intuitive access to common configuration tasks.

Table 25.2-1. Configuring the Data Access System - Activity Checklist

Order	Role	Task	Section	Complete?
1	DAAC Operator	Launching the Data Access GUI	(P) 25.2.1	
2	DAAC Operator	Adding or Updating a Service	(P) 25.2.2	
3	DAAC Operator	Creating or Updating a Service to Collection Mapping	(P) 25.2.3	

25.2.1 Launching the Data Access GUI

- 1 Access a terminal window logged in to a host (e.g., the Operations Workstation or Sun external server) that has access to the Mozilla Firefox web browser.
 - Examples of Linux external server host names include e4dp101, l4dp101 or n4dp101.
- 2 Type **firefox &** then press **Return/Enter**.
 - It may be necessary to respond to dialogue boxes, especially if the browser is already being used by someone else who has logged in with the same user ID.
 - The Mozilla Firefox web browser is displayed.
- 3 If a bookmark has been created for the **Data Access GUI**, select the appropriate bookmark from those listed on the browser's Bookmarks pull-down window.
 - Depending on the current configuration of the Data Access GUI, the GUI may or may not require a user name and password to log in. If SECURED_URL_PATTERN in the config parms is set to '/' a username/password will be required, any other value will disable the login requirement.
 - If you see a login page (see Figure 25.2-1), enter a username and password for any user which is configured in the tomcat-user.xml file and granted the user role specified by DATA_ACCESS_ROLE in the config parms (the role will generally be "DataAccess").

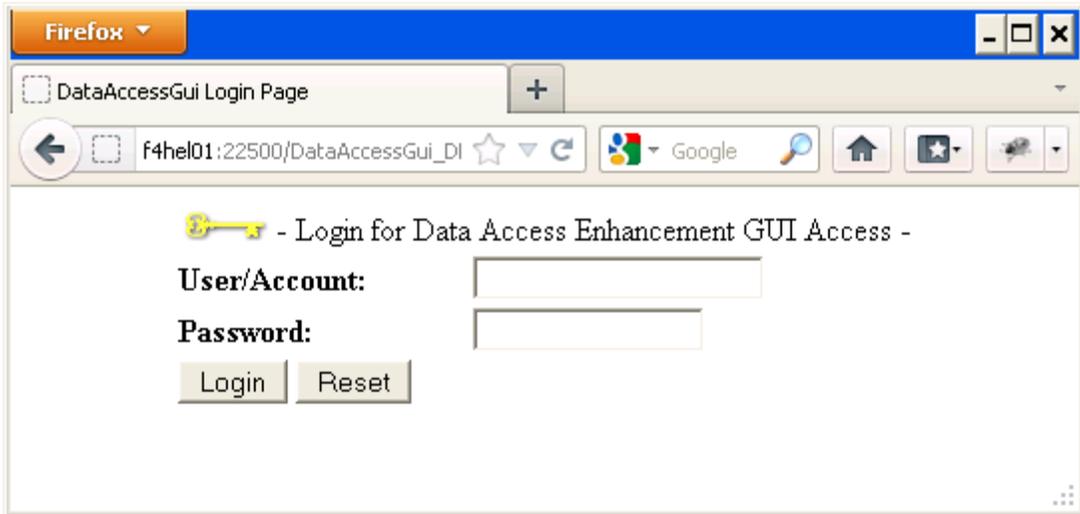


Figure 25.2-1. Data Access Login Page

- 4 If no bookmark has been created for the **Data Access GUI**, enter the URL in the Address window and click on the **Go** or press the **Return/Enter** button.
 - For example: <http://x4hel01:22500/DataAccessGui/>
 - The Login: prompt is displayed (assuming the GUI is configured to require a login, see above).
- 5 Click the **Login** button, if displayed, to enter the GUI.
- 6 The Data Access GUI Collection Configuration tab (Figure 25.2-2) is now displayed.

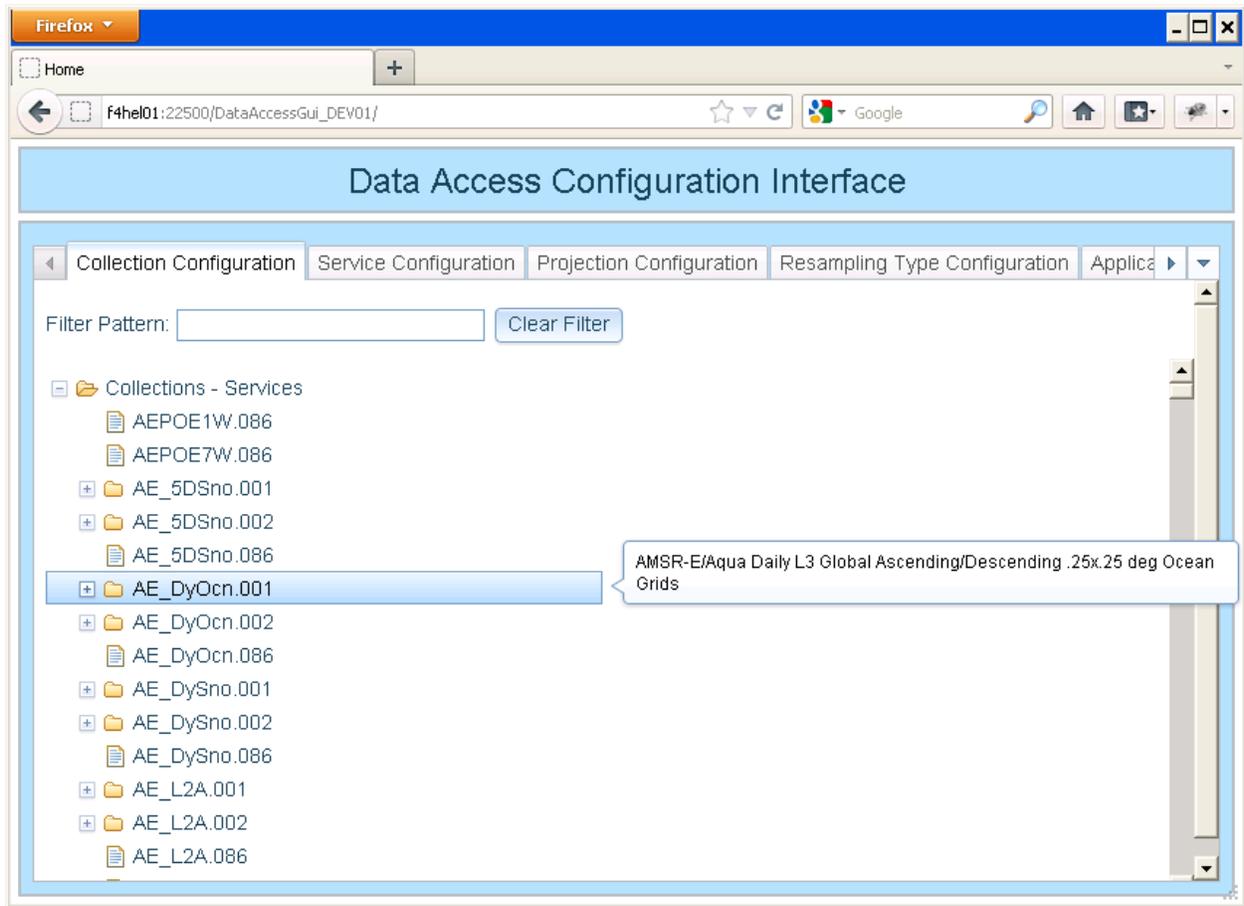


Figure 25.2-2. Data Access Collection Configuration Tab

The Collection Configuration Tab provides many options for configuring collections for use within the Data Access system. This tab will be discussed in later sections. It is also the first page you see upon logging in to the GUI.

25.2.2 Adding or Updating a Service

In order to add a new service or update an existing one, the Service Configuration tab is used.

- 1 Log in to the Data Access GUI.
 - Collection Configuration tab is displayed.
- 2 Click the **Service Configuration** tab.
 - Service Configuration tab (Figure 25.2-3) is displayed, with all currently configured services listed.

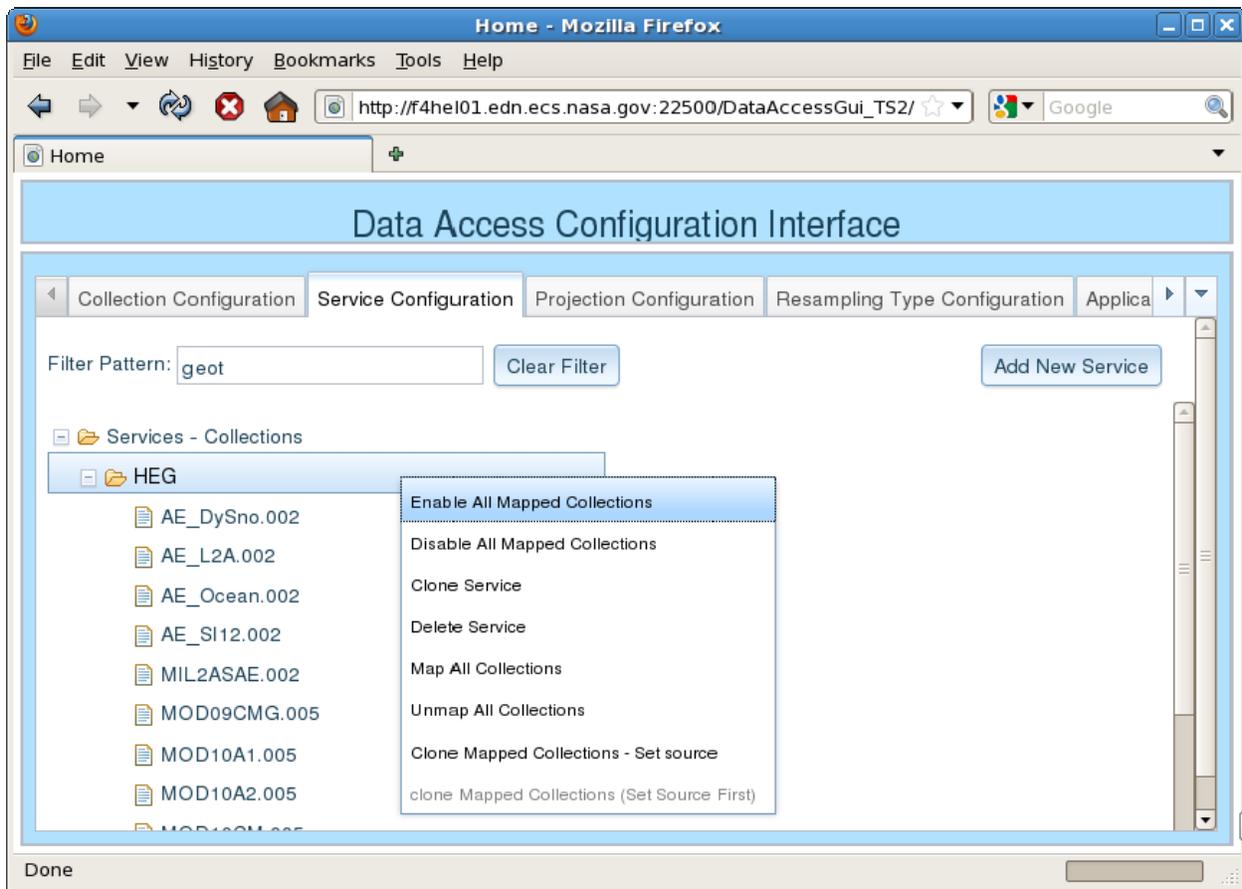


Figure 25.2-3. Service Configuration Tab (with filter applied and context menu visible)

- 3 To add a new Service, click the **Add New Service** button.
 - The **Add New Service** dialog box (Figure 25.2-4) appears.
- 4 To update an existing service, find the service in the list and double click it.
 - The **Edit Service** dialog box appears. This box is almost identical to the **Add New Service** box, except some of the fields (**Service Name** and **Service Description**) cannot be modified. Otherwise, the instructions below apply to both creating a new service and modifying an existing one.

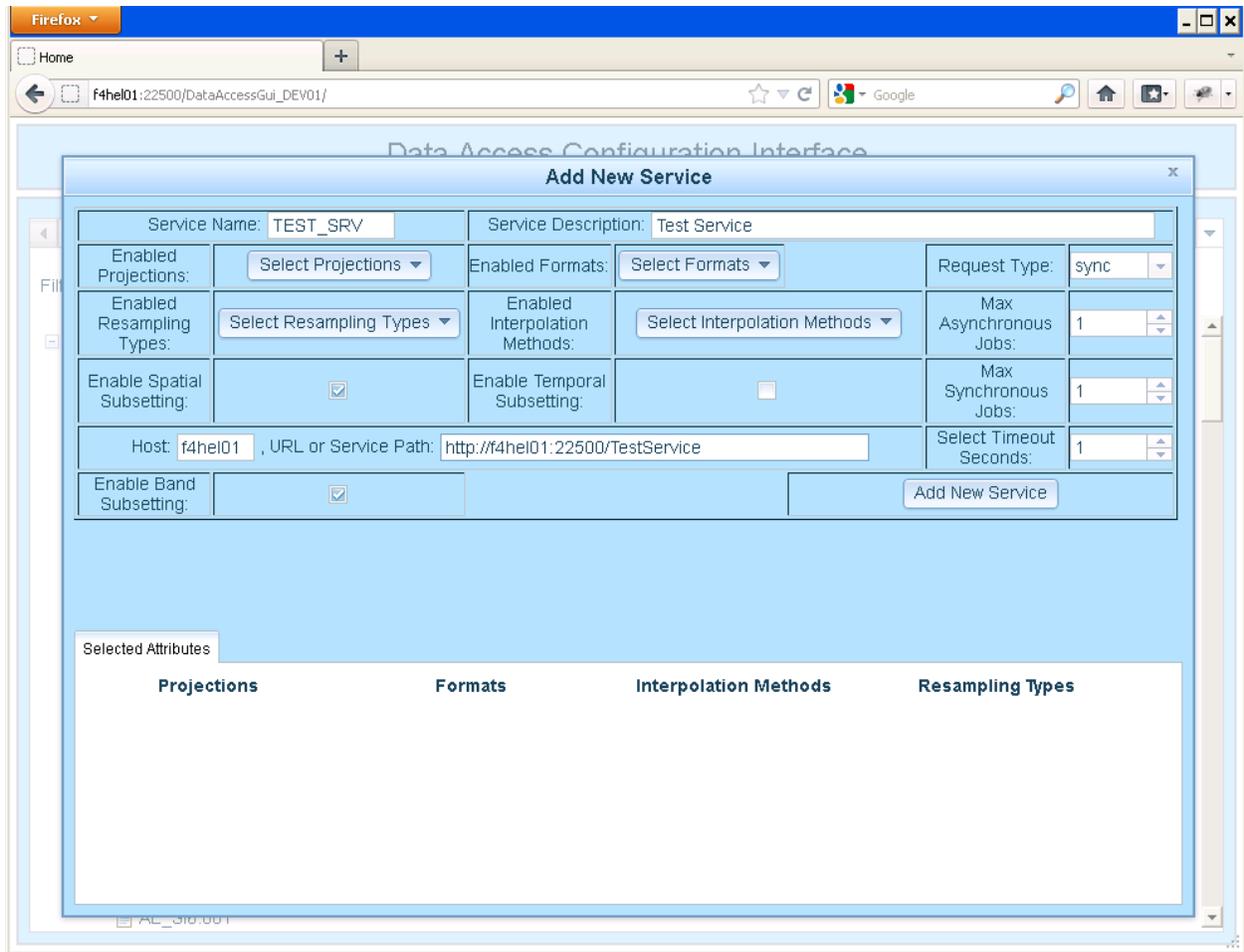


Figure 25.2-4. Add New Service Dialog Box

- 5 Enter a service name and description.
 - **Service Name** is the short name used to refer to the service, for instance in ESI requests.
 - **Service Description** is a more verbose description of the service.
- 6 Enter the general service options.
 - **Host** is the host on which the service resides. It is only really used for command line based services, but should always be filled in.
 - **URL or Service Path** is either a URL to a webservice endpoint, or a file system path to a command line executable or script which resides on the specified **Host**. If a command line path is specified, the Rest Quick Server must be running on the

specified **Host**. In either case, the service or executable must conform to the ESI API.

- **Request Type** is the type of requests that the service will be available to process, either **sync** (user waits for request to complete), **async** (user gets request tracking information back immediately and then is informed later when request completes) or **both** (user has the option to submit sync or async requests).
- **Max Asynchronous Jobs** specifies the maximum number of jobs (i.e. granules) for async requests the service can process at a time.
- **Max Synchronous Jobs** specifies the maximum number of jobs (i.e. granules) for sync requests the service can process at a time.
- **Select Timeout Seconds** Specifies the number of seconds after which the Data Access system will give up waiting for a job and consider it a failure. Note that the job will not be terminated on the service host, and the service should implement its own timeout mechanism.

7 Enable supported subsetting types. Use the check boxes to enable any of the following which are supported by the service:

- **Spatial Subsetting** – Extracting a subset of data based on geographical location.
- **Temporal Subsetting** – Extracting a subset of data based on time associated with the data.
- **Band Subsetting** – Extracting a subset of data based on the data parameters of interest.

8 Select valid values for various processing options such as formats, projections, etc.

- Each dropdown in this screen (e.g. **Select Projections**) will display a list of selected and available valids when clicked. See Figure 25.2-5 for an example.
- In each drop down, click an item in the **Available** section to add it to the **Selected** section, or an item in the **Selected** section to remove it.
- Note: the available valids for **Format, Projection, Interpolation Method, and Resampling Types** are defined in the database. Adding new options requires a manual update to the database, however, some properties of the **Projection** and **Resampling** valids can be altered using the **Projection Configuration and Resampling Type Configuration** tabs. See the Data Access 609 section for more details.
- The drop down can be dismissed by clicking out side of its bounds.

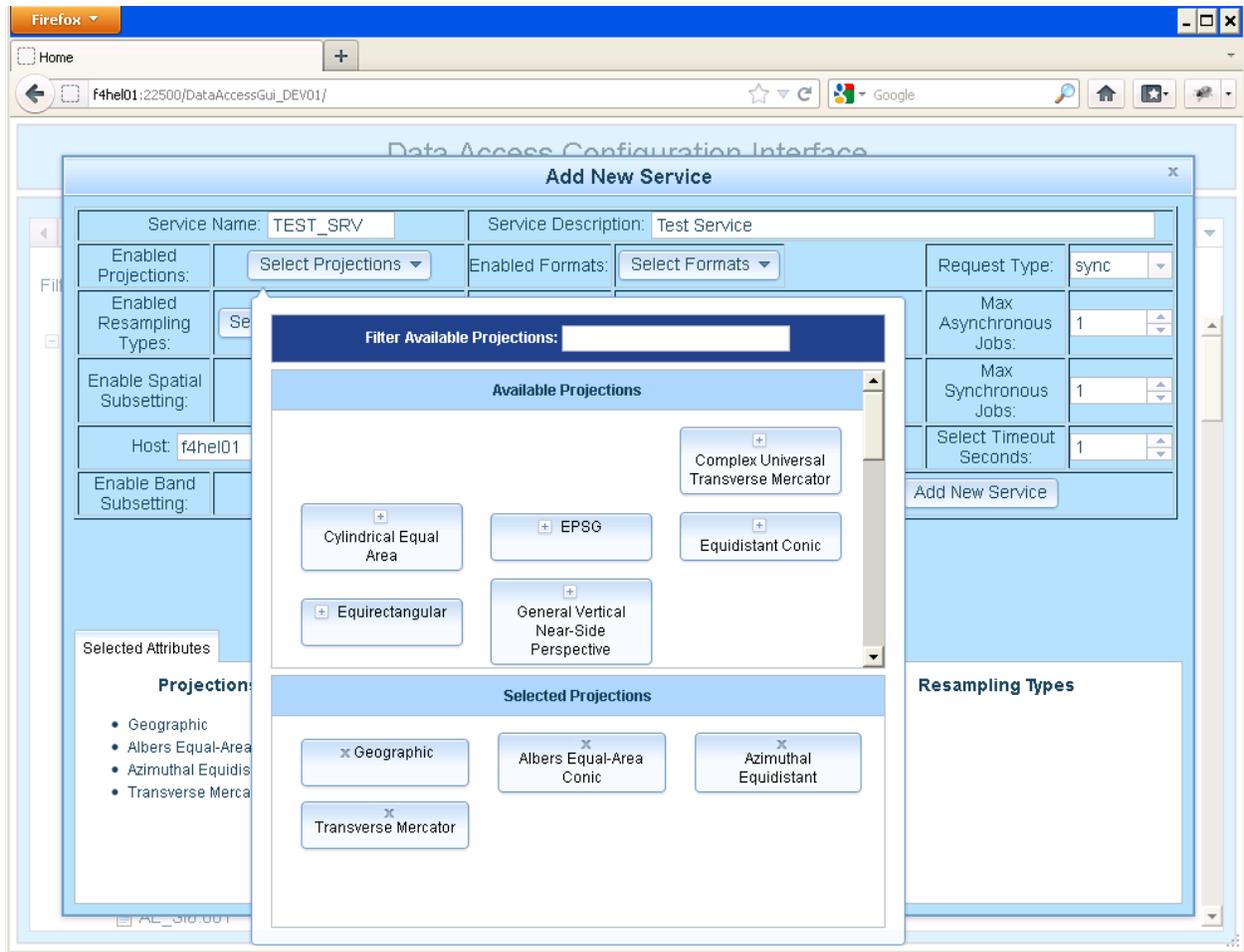


Figure 25.2-5. Projection Validates Selection Dialog Box

- 9 Click the **Add New Service** button to save the new service.

25.2.3 Creating or Updating a Service to Collection Mapping

In order to map a service to a collection or modify an existing mapping, the Collection Configuration tab is used. A Service to Collection mapping enables processing using the specified service on granules of that collection.

- 1 Log in to the Data Access GUI.
 - The Data Access GUI Collection Configuration tab (Figure 25.2-2) is now displayed.
- 2 Find the desired collection in the list.
 - You may want to use the filter text box to search for the collection since the list is quite large. All installed ECS collections in the current mode are listed.

3 To create a new mapping (i.e. enable a service on the collection which has not previously been enabled), right click on the collection name in the list.

- The Collection context menu (Figure 25.2-6) is displayed. Position your mouse over the **Configure New Service for Collection** item.
 - A list of available services is displayed. Select the desired service.

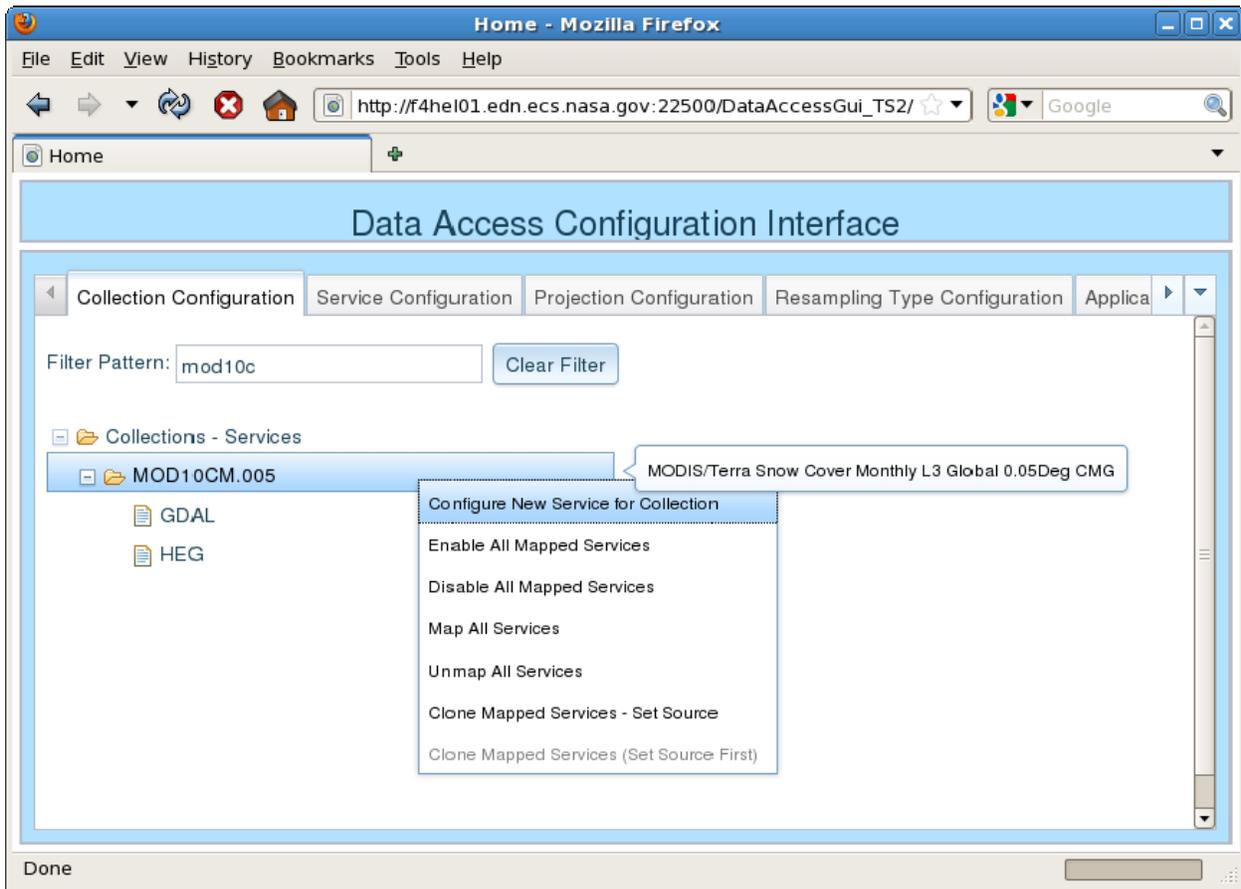


Figure 25.2-6. Collection Configuration Tab and Context Menu

4 To update an existing mapping (i.e. modify the options exposed by a service on a collection it is already enabled for), click the “+” to the left of the collection name.

- A list of services currently enabled on the collection is displayed. Double click the service to modify options for.

5 The **Configure Service for Collection** dialog box (Figure 25.2-7) is displayed. The **Configure Service for Collection** dialog is very similar to the **Add/Edit Service** dialog described above. However, some of the options, which are the same for all collections mapped to the service (such as service end point, service name, etc) are greyed out and cannot be edited.

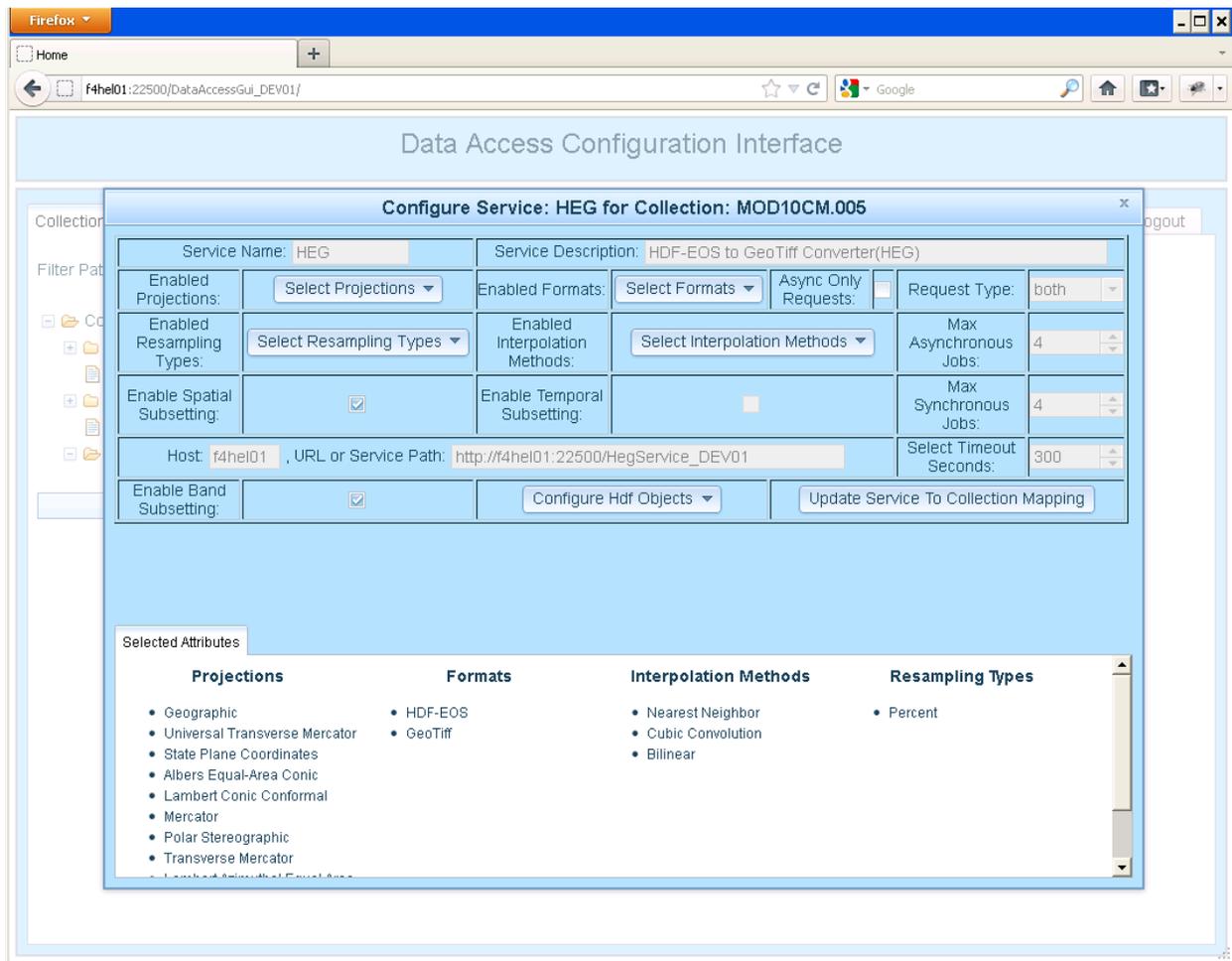


Figure 25.2-7. Configure Service for Collection Dialog Box

6 Make Collection specific valids selections. The **Projection**, **Format**, **Resample Types**, and **Interpolation Methods** drop downs in this dialog mirror those in the service dialog exactly, except that the items available for selection are only those which were selected in the Service dialog. This way, the operator can select a subset of the service-offered valids which are relevant for each collection.

- Click the drop downs to make any changes desired. By default, all options provided by the service will be enabled on a newly mapped collection.

7 Choose **Async Only Requests** if you would like to limit requests on this collection to asynchronous requests only, while the service supports synchronous or asynchronous. This is useful for instance when a particular collection processes particularly slowly.

8 Select **Hdf Objects** to expose for **Band Subsetting**. The list of available objects is derived from the execution of the ‘bandtool’ on each granule upon ingest and should cover all HDF objects, fields, bands, and dimensions for all granules in the collection. Note that some one-dimensional fields may be automatically disabled.

- Click the **Configure Hdf Objects** drop down menu.
- A tree of HDF objects is displayed (see Figure 25.2-8).
- Select the “+” button to the left of each item to expand the items below it.
- Check or uncheck the checkbox to the right of each item to enable or disable it as an option exposed for band subsetting on this collection.
- Click outside of the drop down to dismiss it.

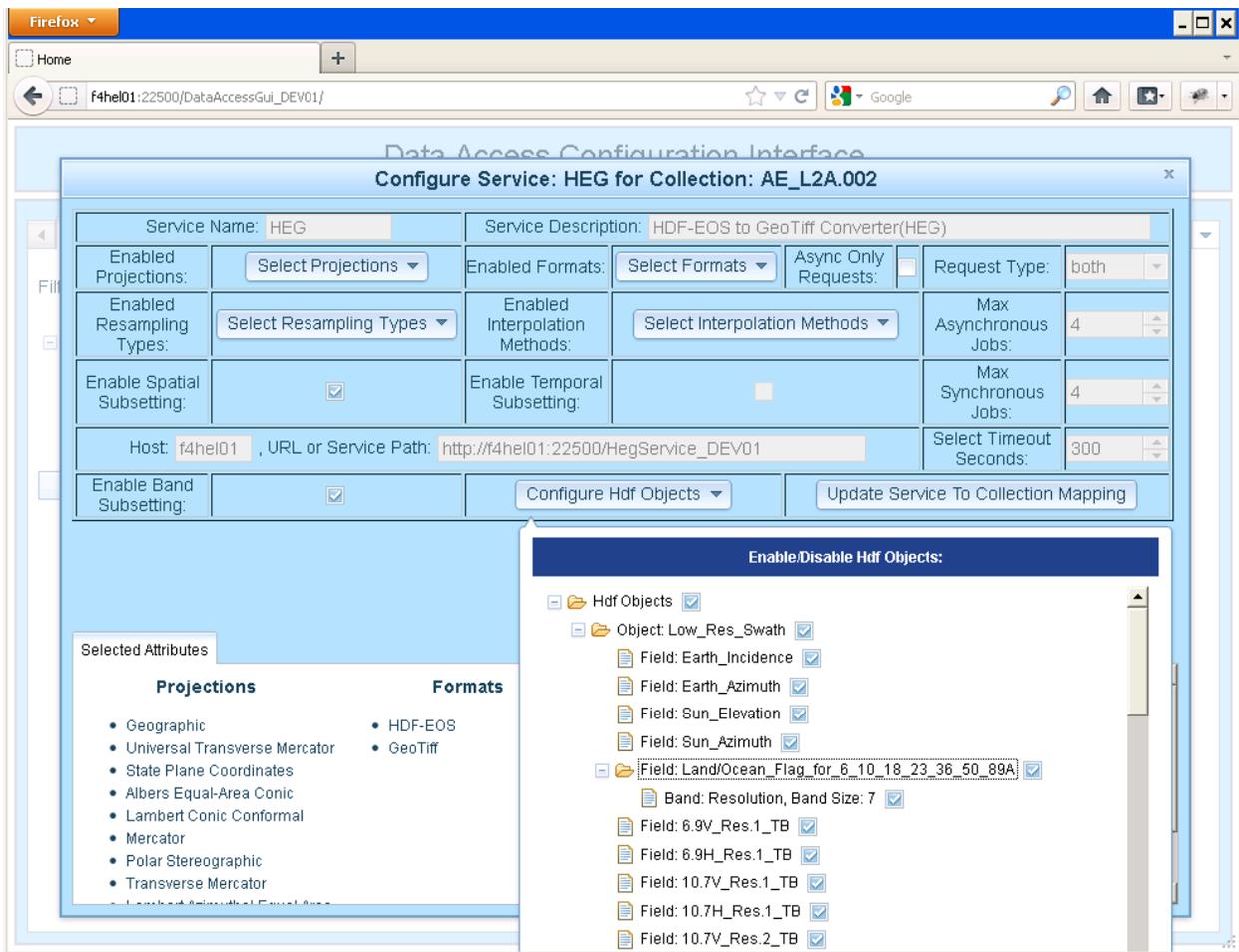


Figure 25.2-8. Configure Hdf Objects Drop Down Menu

- 9 Click the **Update Service to Collection Mapping** button to save the mapping options.

25.3 Monitoring the DataAccess System

Table 25.3-1. Configuring the Data Access System - Activity Checklist

Order	Role	Task	Section	Complete?
1	DAAC Operator	Monitoring Recent Requests	(P) 25.3.1	

25.3.1 Monitoring Recent Requests

In order to monitor the Data Access System, the **Monitor** tab is used

- 1 Log in to the Data Access GUI.
 - The Data Access GUI Collection Configuration tab (Figure 25.2-2) is now displayed.
- 2 Click on the **Monitor** tab.
 - The **Monitor** tab (Figure 25.3-1) is now displayed.

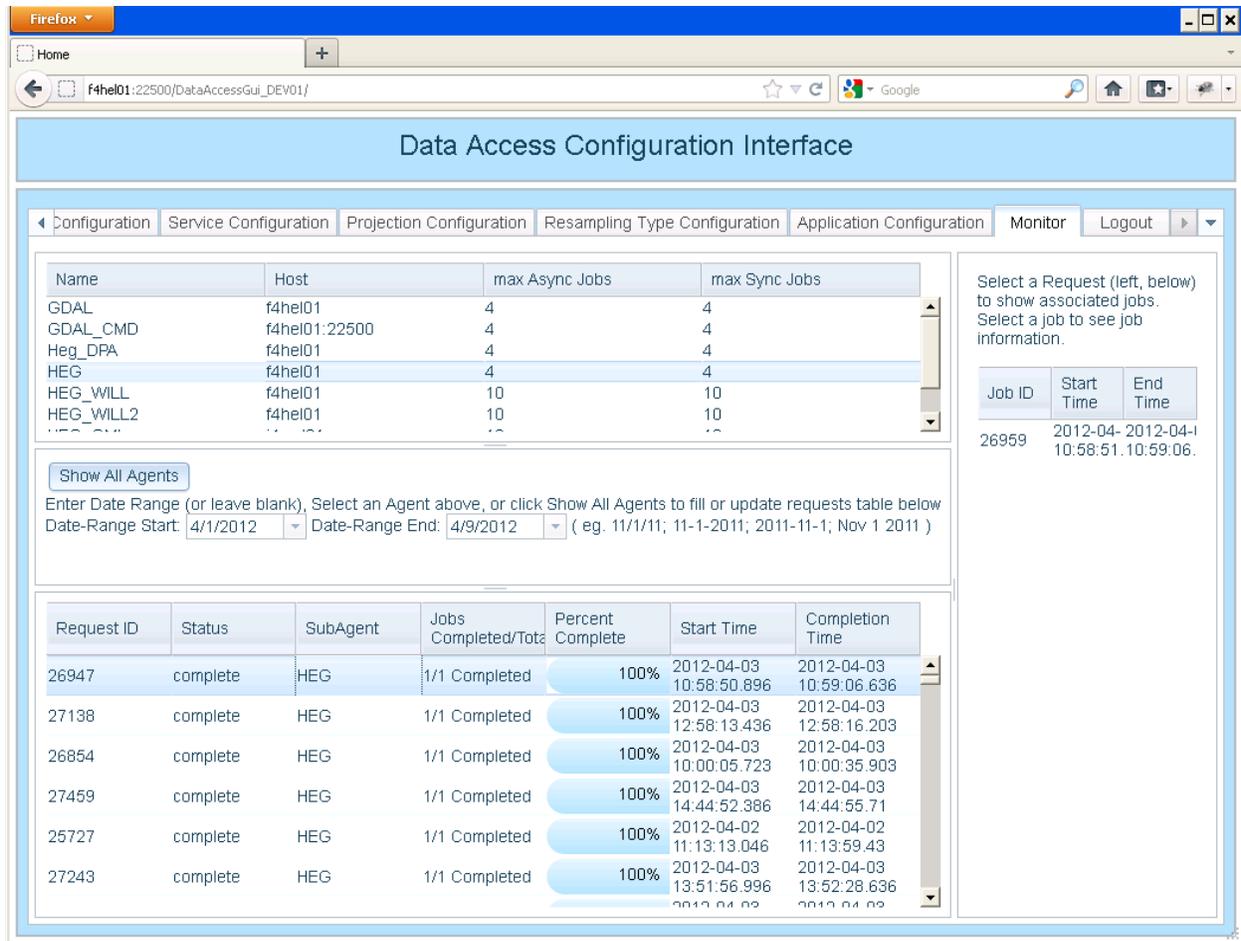


Figure 25.3-1. Monitor Tab

- 3 Select a start and end date to display requests for. The default is to show 3 days worth of requests.
- 4 Click on a service in the list of services in order to show requests for that service.
 - **OR** click the **Show All Agents** to display requests for all services.
- 5 Scroll through the list of requests to find the one you are interested in. Each request in the list has a number of pieces of information about it displayed.
 - **Request ID** – The unique ID of the request.
 - **Status** – The current status of the request.
 - **SubAgent** – The Service which is handling the request.

- **Jobs Completed / Total** – The number of jobs (i.e. granules) in the request which are in a terminal state, over the total number.
- **Percent Complete** – The percentage of the total number of jobs (i.e. granules) in the requests which are in a terminal state.
- **Start Time & Completion Time** – The minimum start time and maximum completion time for jobs in the request.

6 Click on a request to see its' component jobs. Each request has one or more jobs within it which represent the actual processing of the request. A job corresponds to the processing of a single input granule.

7 The job(s) within the selected request are displayed on the right hand side of the **Monitor** Tab.

8 Click on a Job in the **Job List**.

- Information about the selected job is displayed in a **Job Information** pop up. Figures 25.3-2 and 25.3-3 show the **Job Information** pop up for a complete and failed job respectively.

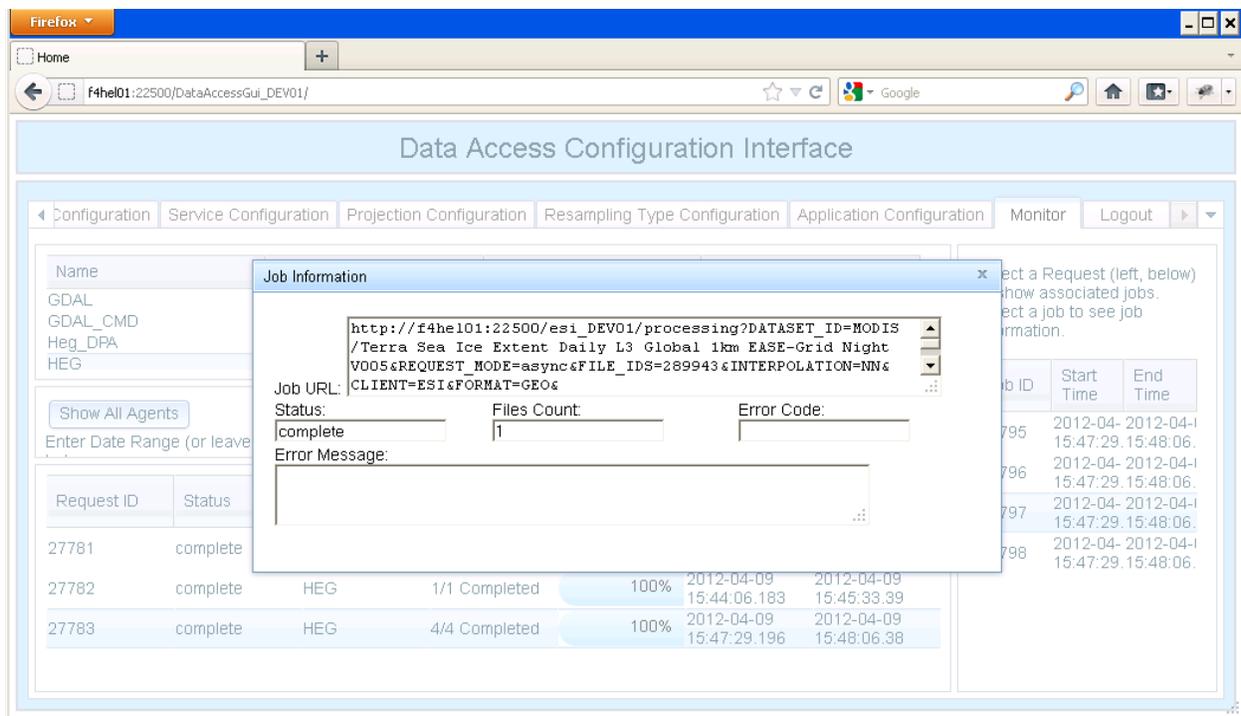


Figure 25.3-2. Job Information Pop-up for a Complete Job

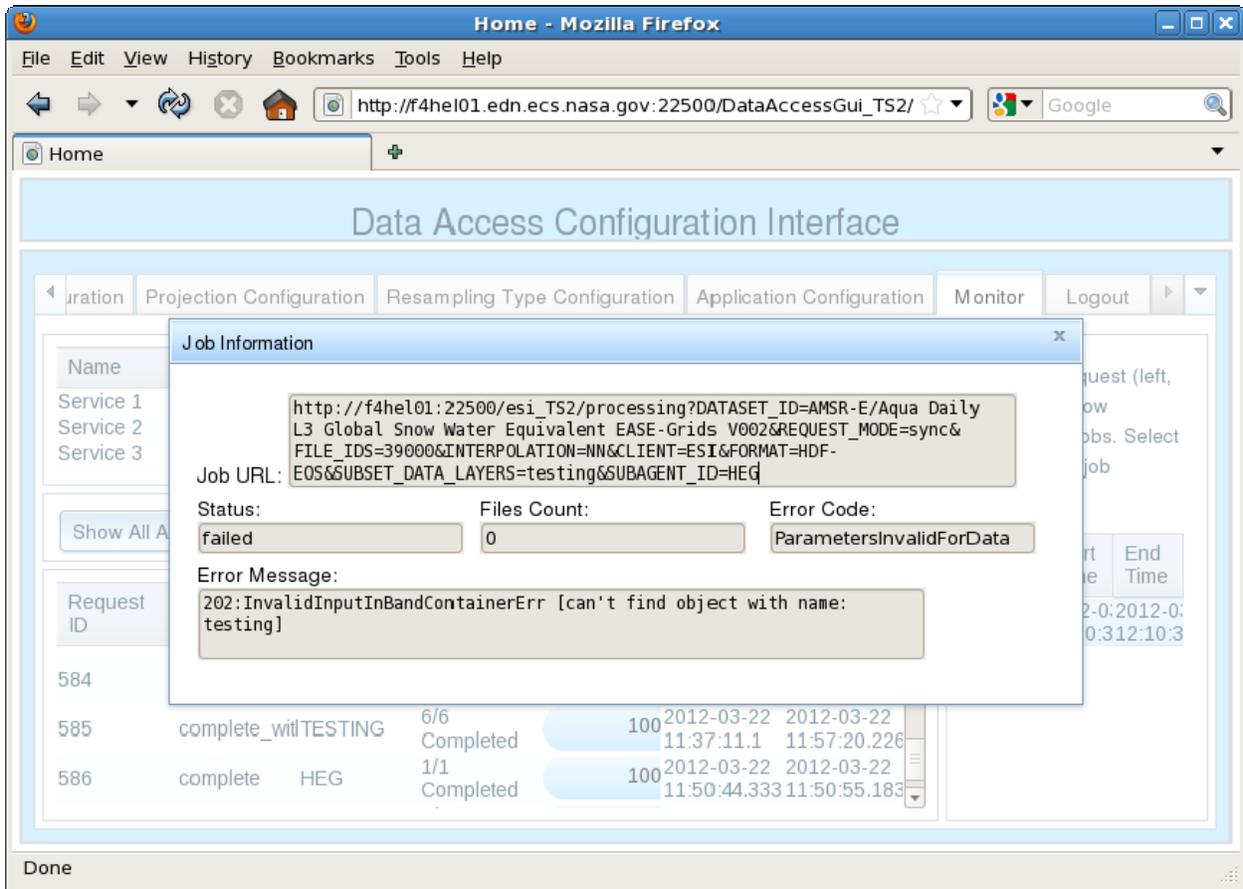


Figure 25.3-3. Job Information Pop-up for a Failed Job

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Abbreviations and Acronyms

Additional abbreviations and acronyms are listed in document 528-EMD-001, ACRONYMS for the EOSDIS Maintenance and Development (EMD) Project.

A _o	Operational Availability
ACL	Access Control List
ACS	Automated Cartridge System
ACSLs	Automated Cartridge Storage Library System
ACVU	Archive Checksum Verification Utility
ADC	Affiliated Data Center
ADIC	Advanced Digital Information Corporation
AFM	Affected File Metadata
AFL	Affected File List
AI&T	Algorithm Integration and Test
AIM	Automated Information Management Archive Inventory Management
AIT	Algorithm Integration Team
ALDT	Administrative Logistic Delay Time
ALOG	Application Log
ANL	Argonne National Laboratory
APC	Access/Process Coordinators
API	Application Program Interface
APID	Applications Process Identifier
AR	Action Request
ARS	Remedy Action Request System
ASCII	American Standard Code for Information Interchange
ASE	Adaptive Server Enterprise
ASTER	Advanced Spaceborne Thermal Emission and Reflection Radiometer
ATL	Automated Tape Library
BLM	Baseline Manager

BMGT	Bulk Metadata Generation Tool
BO	Bundling Order, Bundled Order
BRWS	Browse
BTF	Big Brother Better Than Free Edition
CC	Cloud Cover
CCB	Configuration Control Board
CCR	Configuration Change Request
CD	Compact Disk
CDE	Common Desktop Environment
CD-ROM	Compact Disk - Read Only Memory
CDR	Critical Design Review
CDRL	Contract Data Requirements List
CDS	Cell Directory Service
CERT	Computer Emergency Readiness Team
CHCI	Communications Hardware Configuration Item
CHUI	Character User Interface
CI	Configuration Item
CIDM	Client Interoperability and Data Management
CIL	Configuration Items List
CLI	Command Line Interface
CLS	Client Subsystems
CM	Configuration Management
CMA	CM Administrator
CN	Change Notice
CO	Contracting Officer
COTR	Contracting Officer's Technical Representative
COTS	Commercial Off-the-Shelf (hardware or software)
CPU	Central Processing Unit
CR	Change Request
CRM	Change Request Manager

CSA	Configuration Status Accounting
CSC	Computer Software Component
CSCI	Computer Software Configuration Item
CSG	Clearcase Support Group
CSMS	Communications and Systems Management Segment (ECS)
CSR	Consent To Ship Review
CSS	Communications Subsystem
CVS	Checksum Verification Services
DAA	Data Availability Acknowledgment
DAAC	Distributed Active Archive Center
DADS	Data Archive and Distribution System
DAN	Data Availability Notice
DAO	Data Assimilation Office
DAP	Delivered Algorithm Package
DAR	Data Acquisition Request
DAS	Data Availability Schedule
DAT	Digital Audio Tape
DB	Database
DBA	Database Administrator
DBID	Database ID
DBMS	Database Management System
DBO	Database
DCE	Distributed Computing Environment (OSF)
DCF	Data Capture Facility
DCN	Document Change Notice
DCO	Document Change Order
DCR	Data Collection Request
DD	Data Dictionary
DDA	Data Delivery Acknowledgment
DDICT	Data Dictionary

DDIST	Data Distribution
DDL	Data Definition Language
DDN	Data Delivery Notice
DDSRV	Document Data Server
DDTS	Distributed Defect Tracking System
DEM	Digital Elevation Models
DES	Data Encryption Standard
DESKT	Desktop Configuration Item
DFA	Deleted From Archive Deletion From Archive
DHWM	Data High Watermark
DID	Data Item Description
DIF	Data Interchange Formant
DIMGR	Distributed Information Manager
DLL	Dynamic Link Library
DLT	Digital Linear Tapes
DLWM	Data Low Watermark
DM	Data Management
DME	Distributed Management Environment
DMO	Data Management Organization
DN	Distribution Notice
DNS	Domain Name Service
DOF	Distributed Object Framework
DOY	Day of Year
DOWS	Deployment of Open Geospatial Consortium (OGC) Web Services
DP	Data Pool
DPL	Data Pool
DPAD	Data Pool Action Dispatcher
DPASU	Data Pool Access Statistics Utility
DPCV	Data Pool Checksum Verification Utility

DPIU	Data Pool Insert Utility
DPM	Data Pool Maintenance
DPREP	Data Preprocessing
DPR	Data Processing Request
DPS	Data Processing Subsystem
DR	Delivery Record
DS	Data Server
DSS	Data Server Subsystem
DUE	DAAC Unique Extension
EBIS	EMD Baseline Information System
ECHO	EOS Clearing House
ECM	EMD Change Manager
ECN	Equipment Control Number
ECO	Open Action Items (CM CCR Tool)
ECS	EOSDIS Core System
EED	EOSDIS Evaluation and Development Contract
EDF	ECS Development Facility
EDHS	ECS Data Handling System
EDS	Expedited Data Set
EGS	EOS Ground System
EIN	Equipment Identification Number
EMC	Enterprise Monitoring and Coordination
EMD	EOSDIS Maintenance and Development (Project)
EMSn	EOS Mission Support Network (formerly EBnet)
EOC	EOS Operations Center (ECS)
EOS	Earth Observing System
EOSDIS	Earth Observing System Data and Information System
EP	Evaluation Package
EROS	Earth Resources Observation System
ESD	Electrostatic Discharge

ESDIS	Earth Science Data and Information System (GSFC Code 423)
ESDT	Earth Science Data Type
ESI	EOSDIS Service Interface (Data Acces)
ESOD	Earth Science On-line Directory
ET	Eastern (standard or daylight savings) Time
EWAM	External Web Access Manager
F&PRS	Functional and Performance Requirements Specification
FC	Fibre Channel
FCA	Functional Configuration Audit
FDD	Flight Dynamics Division
FDDI	Fiber Distributed Data Interface
FIFO	First in First out
FOS	Flight Operations Segment (ECS)
FOT	Flight Operations Team
FSMS	File and Storage Management System
FTP	File Transfer Protocol
FTPD	File Transfer Protocol Daemon
GB	Gigabyte (10^9)
Gb	Gigabit (10^9)
GBps	Gigabytes per Second
Gbps	Gigabits per Second
GBAD	Ground Based Attitude Determination
GCDIS	Global Change Data and Information System
GCMD	Global Change Master Directory
GDS	Ground Data System
GeoTIFF	Georeferenced Tagged Image File Format
GES DAAC	GSFC Earth Sciences Distributed Active Archive Center
GFE	Government Furnished Equipment
GFP	Government Furnished Property
GID	Group IDs

GIGE	Gigabit Ethernet
GSFC	Goddard Space Flight Center
GSO	GSFC Security Office
GUI	Graphical User Interface
H/W	Hardware
HA	High Available
HBA	Host Bus Adapter
HDF	Hierarchical Data Format
HEG	HDF-EOS to GeoTIFF Conversion Tool
HIPPI	High Performance Parallel Interface
HPOV	HP Open View
HQ	Hyperic HQ Enterprise
HSM	Hierarchical Storage Management
HTML	Hypertext Mark-Up Language
HTTP	HyperText Transfer Protocol
HWCi	Hardware Configuration Item
I/E	Import/Export
I&AT	Integration and Acceptance Test
I&T	Integration and Test
I&TT	Integration and Test Team
ICD	Interface Control Document
ICLHW	Ingest Client Hardware [configuration item]
IIU	Inventory Insert Utility
ILM	Inventory, Logistics, and Maintenance
ILP	Integrated Logistics Plan
ILS	Integrated Logistics Support
ILSMT	ILS Management Team
ILSO	ILS Office
INGST	Ingest Services
INS	Ingest System

IONET	Internet Protocol Operational Network
IP	Internet Protocol
IPNOC	Internet Protocol Network Operations Center
IPT	Integrated Product Team
IQ	Intelligent Query and IQ Access
IR	Installation Receipt
ISDN	Integrated Services Digital Network
ISS	Internetworking Subsystem
ISQL	Interactive (Structured Query Language) SQL
IV&V	Independent Verification and Validation
KB	Kilobyte (10 ³)
Kb	Kilobit (10 ³)
KBps	Kilobytes per Second
Kbps	Kilobits per Second
L0	Level 0
L0-L4	Level 0 (zero) through Level 4 (use Level-0 through Level-4 for EDHS search)
LAN	Local Area Network
LaRC	Langley Research Center (DAAC)
LCU	Library Control Unit
LE	License Entitlement
LIM	Local Information Manager
LIMGR	Local Information Manager
LMC	Local Maintenance Coordinator Library Management Console
LMU	Library Management Unit
LOI	Library Operator Interface
LP DAAC	Land Processes Distributed Active Archive Center
LRU	Line Replaceable Unit
LSM	Library Storage Module
LTM	Log Transfer Manager

LTO	Linear Tape Open
LUN	Logical Unit Number
LZPF	Level Zero Processing Facility
M	Million, mega (prefix)
M&O	Maintenance and Operations
MAN	Metropolitan Area Network
MB	Megabyte (10^6)
Mb	Megabit (10^6)
MBps	Megabytes per Second
Mbps	Megabits per Second
MCF	Metadata Configuration File Metadata Control File
MD	Master Directory
MDA	Management Data Access
MDC	SNSM Metadata Controller Servers
MDT	Mean Downtime
MHWCI	Management Hardware Configuration Item
MHz	Megahertz
MIB	Management Information Base
MIS	Management Information System
MM	Millimeter
MOAT	MODIS Data Type
MOU	Memorandum of Understanding
MR	Malfunction Report
MSEC	Millisecond
MSS	Management Systems Subsystem
MTBCM	Mean Time Between Corrective Maintenance
MTBF	Mean Time Between Failure
MTBM	Mean Time Between Maintenance
MTBPM	Mean Time Between Preventive Maintenance

MTMGW	Machine-to-Machine Gateway
MTTR	Mean Time to Repair
MTTRes	Mean Time to Restore
MTU	Maximum Transfer Unit
MWO	Maintenance Work Order
N/A	Not Applicable
NA	Network Administrator
NAC	National Agency Check
NASA	National Aeronautics and Space Administration
Nascom	NASA Communications
NASIRC	NASA Automated Systems Incident Response Capability
NBSRV	Spatial Subscription Server
NCC	Network Control Center (GSFC) network communication center
NCEP	National Centers for Environmental Prediction
NCR	Nonconformance Report
NCSA	National Center for Supercomputer Applications
NFS	Network File System
NIS	Network Information Service
NISN	NASA Integrated Services Network
NM	Name Server
NMCI	Network Management Configuration Item
NOAA	National Oceanic and Atmospheric Administration
NPG	NASA Procedures and Guidelines
NPR	NASA Procedural Requirements
NRP	NASA Resource Protection
NSI	NASA Science Internet
NSIDC	National Snow and Ice Data Center
NWCI	Networking Configuration Item
ODL	Object Description Language

OEM	Original Equipment Manufacturer
OGC	Open Geospatial Consortium
OI	Operator Interface
OJT	On-the-Job Training
OLA	On-Line Archive
OM	Order Manager
OMB	Office of Budget Management
OMS	Order Manager Subsystem
OMSCLI	Order Manager Service Command Line Interface
OPR	Operator
Ops Super	Operations Supervisor
ORPA	Operations Readiness & Performance Assurance
ORR	Operations Readiness Review
OS	Operating System
OSF	Open Software Foundation
OTS	Off-the-Shelf
OVW	HP OpenView Windows
OWS	Open Geospatial Consortium (OGC) Web Services
PA	Property Administration
PANS	Product Acceptance Notifications
PB	Petabyte (10 ¹⁵)
PC	Process Control
PCA	Physical Configuraton Audits
PCF	Process Control File
PDL	Program Design Language
PDPS	Planning and Data Processing System
PDR	Product Delivery Record
PDRD	Product Delivery Discrepancy Report
PDS	Product Distribution System Production Data Set

PDSOI	Product Distribution System Operator Interface
PDSIS	Product Distribution System Interface Server
PGE	Product Generation Executable
PGS	Product Generation Service
PH	Production History
PI	Principal Investigator
PIN	Password Identification Number
PM	Preventative Maintenance
PMD	Physical Media Distribution
PMP	Property Management Plan
PMPDR	Physical Media Product Delivery Record
POC	Point-of-Contact
PPM	Principal Period of Maintenance
PR	Production Request (s)
PRB	Problem Review Board
PRE	Production Request Editor
PRS	Primary Replication Server
PSA	Product-specific attributes
PSR	Pre-Ship Review
PVC	Performance Verification Center
QA	Quality Assurance Quality Assessment
QC	Quality Control Quality Check
QRU	Query, Retrieve, and Update
QAUU	Quality Assurance Update Utility
R&M	Reliability and Maintainability
RAID	Redundant Array of Inexpensive Disks
RAM	Random Access Memory
RAS	Remote Access Service Remote Access Server

RCL	Replication Command Language
RDMS	Relational Database Management System
RHEL	Red Hat Enterprise Linux
RE	Responsible Engineer
RMA	Return Material Authorization Reliability, Maintainability, and Availability
RMS	Resource Management Subsystem
RPC	Remote Procedure Call
RRS	Replicate Replication Server
RS	Replication Server
RSA	Replication System Administrator
RSM	Replication Server Manager
RSSD	Replication Server System Database
S/C	Spacecraft
S/W	Software
S/WCI	Software Configuration Item
SA	System Administrator
SANS	Storage Area Network
SATAN	Security Administrator Tool for Analyzing Networks
SCDO	Science and Communications Development Office (Now ECS Science Development Organization)
SCF	Science Computing Facility
SCID	Space Craft ID
SCSI	Small Computer System Interface
SCP	Secure Shell Protocol Secure Copy Protocol
SCDV	Science Development
SD	Software Development
SDPS/W	Science Data Production Software
SDPTK	Science Data Processing Toolkit
SE	System Engineering

SEPG	Software Engineering Process Group
SIG	Silicon Graphics Incorporated
SI&T	System Integration and Test
SIPS	Science Investigator-Led Processing Systems
SLA	Site License Agreement Software License Administrator
SMC	System Monitoring Center
SMF	Status Message Facility
SMTP	Simple Mail Transport Protocol
SNAC	StoreNext Archive Cache
SNFS	StoreNext File System
SNMP	Simple Network Management Protocol
SNMS	StorNext Management System
SNSM	StoreNext Storage Manager
SOR	System Operations Review
SORR	Segment Operational Readiness Review
SOW	Statement of Work
SPRHW	Science Processing Hardware [configuration item]
SQL	Structured Query Language
SQR	SQL Report Writer
SQS	Spatial Query Server
SRR	System Requirements Review
SSH	Secure Shell
SSL	Secure Socket Layer
SSS	Spatial Subscription Server Secure Shell Setup
STK	Storage Tek
SubsMgr	Subscription Manager
T&M	Time and Materials
TB	Terabyte (10^{12})

TBD	To Be Determined
TBS	To Be Supplied
Tbyte	Terabyte
TCP/IP	Transmission Control Protocol/Internet Protocol
TEC	Tivoli Enterprise Console
telecon	Telephone Conference
TELNET	Telecommunication Network
TPS	Transactions Per Second
TRMM	Tropical Rainfall Measurement Mission
TSDIS	TRMM Science Data and Information System
TT	Trouble Ticket
TTPRO	TestTrack Pro
UDP	User Datagram Protocol
UID	User IDs
UR	Universal Reference
URDB	User Recommendations Database
URL	Universal Resource Locator
USO	User Support Office
US Rep	User Services Representative
UWG	User Working Group
VATC	Verification and Acceptance Test Center
VDD	Version Description Document
VLAN	Virtual Local Area Network
VOB	Versioned Object Base (ClearCase)
VTL	Virtual Tape Library
WAIS	Wide Area Information Server
WAN	Wide Area Network
WCS	Web Coverage Service
WIST	Warehouse Inventory Search Tool
WKBCH	Workbench

WKSHCI	Working Storage Hardware Configuration Item
WMS	Web Mapping Service
WSDL	Web Service Distribution Language
WWW	World Wide Web
VOB	Versioned Object Base
XCU	XML Check Utility
XLV	Logical Volume Disk Driver
XML	Extensible Markup Language
XRU	Granule XML Metadata Replacement Utility
XVU	XML Validation Utility