

222-TP-012-001

**Evaluation Package 6
Deployment Description**

**Technical paper - Not intended for formal review
or Government approval.**

December 1995

Prepared Under Contract NAS5-60000

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Contents

1. Introduction

1.1	Identification of Document	1-1
1.2	Scope of Document	1-1
1.3	Purpose and Objectives of Document	1-1
1.4	Document Status and Schedule	1-1
1.5	Document Organization	1-1

2. Related Documentation

2.1	Parent Documents	2-1
2.2	Applicable Documents	2-1

3. Product Description

3.1	Functional Content	3-1
3.1.1	SDPS Content in EP6	3-1
3.1.2	CSMS Content in EP6	3-3
3.2	Physical Configuration and Workstation Requirements	3-4
3.3	EP4 and PW1 Comments Incorporated	3-7
3.4	Functionality not Provided in EP6	3-9

4. Product Inventory

4.1	EP6 Release Files	4-1
4.2	EP6 Dataserver Files	4-1
4.2.1	EP6 Dataserver Tarfile Contents	4-1
4.3	EP6 HP Client Files	4-2
4.3.1	EP6 HP Client Tarfile Contents	4-2
4.4	EP6 SUN5 Client Files	4-4
4.4.1	EP6 SUN5 Client Tarfile Contents	4-5
4.5	EP6 HP Application Server Files	4-7
4.5.1	EP6 HP Application Server Contents	4-7

5. CSMS Deliveries by EP

5.1	Open NCRs	5-1
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Abbreviations and Acronyms

Appendix A. Installation Instructions

1. Introduction

1.1 Identification of Document

This technical paper provides a description of the several portions of Evaluation Package 6 (EP6) as approved for by ECS for deployment for user evaluation. EP6 will be installed on ECS DAAC Liaison Workstations, two servers within ECS EDF, and on several EOS Science Advisors Workstations. EP6 user evaluation is presently planned to occur in November 1995 through January 1996.

1.2 Scope of Document

This technical paper specifies the contents of the ECS EP6. EP6 is composed of : EP6 client on both SUN and HP platforms, EP6 application servers.

1.3 Purpose and Objectives of Document

Summary descriptions for each section of this white paper are provided in Section 3-1.

1.4 Document Status and Schedule

This technical paper contains the EP6 Deployment Description as approved by the ECS CCB for the EP6 Consent to Ship Review, November 1995.

1.5 Document Organization

This technical paper contains the following sections

Introduction -- Introduces the paper's scope, purpose, objectives, status, schedule and document organization

Related Documentation -- Provides a bibliography of reference documents for the paper organized by parent and binding subsections.

Product Description -- Describes the general capabilities and product contents of EP6. Describes the EP6 configuration including custom software, COTS hardware and COTS software.

Inventory -- Lists tar file listings for the EP6 Client and the EP6 Application Server

Discrepancy Status -- Discusses known problems with in EP6, and lists discrepancy reports with open status.

Appendices -- Contains supplemental information such as: Build/Installation instructions.

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2. Related Documentation

2.1 Parent Documents

The following documents are the parent from which this document's scope and content derive:
EP Strategic Plan (222-WP-003-001).

2.2 Applicable Documents

The following documents are directly applicable to this plan to the extent referenced herein. In the event of conflict between any of these documents and this plan, the plan shall take precedence.

EP6 Design Review Presentation Package (722-PP-007-001), EP Strategic Plan (222-WP-003-001).

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3. Product Description

This section describes the functional content and the physical description of EP6.

3.1 Functional Content

EP6 is composed of functionality from SDPS and CSMS as shown in the next table. Additional descriptive information is available in the following subsection. For more information about these services, please see the EP Strategic Plan White Paper (222-WP-003-001) and the Design Review Presentation package (722-PP-007-001).

- 1) Use of the Object Oriented Distributed client server application development environment (through OODCE infrastructure).
- 2) Data type services and the associated client functionality for searching (temporal, spatial and other core metadata attributes) granule and collection metadata
- 3) Data push and pull services for science data and browse.
 - - 90 granules, 3 data sets
- 4) Provide explanation and definitions of ECS acronyms and data collections
- 5) Incremental release of the Advertising service and Interoperability Infrastructure interfaces prototyped in EP4.
 - Provides services for browsing/submitting earth science related advertisements.
- 6) User self-registration service, User Profile tools and User Preferences.
- 7) Use of Trouble Ticketing to report and track problems.
- 8) Use of Extensible Agents to manage applications.
- 9) The Data Visualization tool kit or EOSView (Part of the Client Subsystem)

3.1.1 SDPS Content in EP6

Earth Science Search Tool: This tool will provide the capability to issue a query and retrieve results from the prototype Data Server. It will provide a user-friendly search screen, which does not require typed entry of any attribute values. Instead, the search screen will provide a means for displaying query attribute valid values which may then be selected by the user.

A timeline widget and a map widget will both be employed to simplify the selection of temporal and spatial ranges. A service invocation user interface will be presented to permit the user to select desired services. Both on-line help and a User's Guide will be provided. All developed source code will be written in C++.

The nesting widget is also used to display query results. Since ECS data collections can be aggregated in many ways and into many levels, the nesting widget is an ideal means of organizing and presenting both collection and granule level metadata. The key concept is the multi-level integration of collection and inventory metadata on a single results window, which obviates the need for separate queries. Further, a quick link to the Data Dictionary user interface will be made available to facilitate obtaining definitions of terms.

For EP6, the Search Tool's valid values will be obtained from the Data Dictionary Server, ensuring continuous synchronization of valid values with the current state of the data base.

Product Request Tool: The tool will be used to confirm granules selected for ordering from the data server. It will manage the submission and confirmation of data orders. For EP6, only ftp delivery of data will be available.

EOSView Visualization Tool: This tool will be used for displaying or animating available browse images of selected granules in addition to displaying contents of ordered granules and datasets. EOSView allows users to view the contents of HDF-EOS files. Separate documentation exists to describe the full range of analysis capabilities provided by the software.

Desktop Manager: The Desktop Manager will be enhanced from the EP-4 version to utilize the nesting widget for the hierarchical display of desktop objects. This model follows closely that used by Microsoft Windows' and the Macintosh's file manager.

HTML-based Client Tools: The Client will contain a set of HTML-based tools where feasible to implement required capabilities. These tools will be represented by a set of HTML pages along with corresponding shell scripts and server-end code. This will enable these tools to be accessed from popular HTML browsers. A Mosaic browser will be distributed with the Client software, but Netscape is recommended.

Data Dictionary Tool: This tool will demonstrate the capability to query the ECS acronym list, glossary of terms, and metadata dictionary all of which will be stored in the Data Dictionary Server. Users can look up "vocabulary" via a free text search entry or indexing of catalog. Boolean operations, and "see also" (Reference) function will be supported. Close links to ESST in assisting the construction of a search query will be implemented.

User Registration Tool: This tool will be the entry point for a non-ECS user to request an ECS account and to obtain ECS client software. An ECS registration form will be provided to obtain user information which includes name, organization, and all the essential data required by the MSS. The registration information will be forwarded to MSS for verification and processing.

User Profile Tool: This tool facilitates modification of user information and ECS application defaults in a user-friendly manner. This information will be stored in the User Information Database which is controlled by CSMS/MSS. Centralized, remote storage and access of this information will allow context revival (restoration of the users' preferences) on any client to which the user logs in.

Interoperability Service: The Interoperability service comes from the Advertising Service Prototype. The Advertising Service is a collection of objects implementing the client subsystem

interfaces to the advertising services and representing them on the user interface screen. They include: advertisement objects, provider objects and data product objects. These objects will be shown as a combination of HTML pages as well as icons and text.

Data Management Service: The Data Dictionary Service (DDS) will provide users with definitions and descriptions of data collections, attributes, keywords, ECS terms, acronyms and glossary. It also provides information on dependent valids. The DDS will use the DDS database, an application server program with an OODCE interface, and CGI scripts for HTTP server access. The application server program receives search requests from the clients, processes the requests and sends the results to the clients. Definitions of data collections, attributes, keywords, etc., can be accessed using the HTML client, HTTP server and CGI scripts. CGI scripts will be used for accessing the data from the database.

Core Data Server Prototype: The Data Server Subsystem will provide a limited set of data and services in its EP6 Data Server prototype to support EP6 clients. The following services will be provided: 1) query on metadata for an ESDT, and 2) data delivery for an ESDT.

The query service will be provided for requesters of the inventory (granule) and directory (collection) metadata. The Data Server will accept a search request containing keyword, spatial or temporal constraints and will pass the results back to the requester.

3.1.2 CSMS Content in EP6

User Registration Services: The MSS User Registration Services are responsible for facilitating the creation of user accounts in the ECS system. Requests from the users will be made initially through the User Registration Tool provided by the Client Subsystem. MSS will provide an API call to store the pending applications. From this point, MSS will provide an HTML interface which will fulfill the following functional areas : Browse and Process Outstanding Requests, Delete Accounts and Query Accounts

Management Agent Services: The Management Agent Services are responsible to monitor and control objects with the ECS system. For EP6, the Management Agent Services will provide limited monitor and control ability of several object types. These objects include the various hosts involved in the EP6 as well as the ECS developed application packages.

For application packages, MSS will provide an instrumentation API for integration into EP6 custom software. This API will allow the collection of base performance data such as CPU utilization and memory usage. Additionally the API will provide the ability for remote startup, shutdown, and status checking of the managed applications.

All of the information collected by the Management Agent Services will be available via the Management Framework.

Management Framework (HP-Openview): The Management Framework will provide a graphical interface to access the data provided by the Management Agent Services. A map of the EP6 network configuration will be the primary interface. From this interface, the collection frequency

and other parameters may be configured. After collection, several reporting and graphing options will be provided.

Trouble Ticketing (Remedy): The Trouble Ticketing (TT) provides consistent means of reporting, classifying, and tracking problem occurrence and resolution. For the purposes of EP6, TT will provide an HTML interface which will allow a user to register a trouble ticket. Data contained on this trouble ticket will include a unique id, a short and long description of the problem, and submitter information (name, phone, etc.).

In addition to the HTML interface, TT provides a Motif GUI to the Remedy Package. For EP6, Remedy will be configured to notify specified users upon entry of a trouble ticket, assignment of trouble tickets, and automatic notification of a status change to the submitter. Additionally, the ability to produce reports on the status of all current trouble tickets will be available.

Directory/Naming Extensions: CSS will provide wrapper functions to map some of the XFN functionality to the underlying local namespaces that are supported: Cell Directory Service (CDS) and Global Directory Service (GDS). These wrappers are written on top of the X/Open's standard XDS/XOM interfaces. The wrapper functions allows application programmers to store and retrieve application specific information in the local namespaces.

Asynchronous Message Passing: CSS will provide guaranteed asynchronous message passing without any changes at the server side. In this approach, separate threads are formed at the client side to invoke the actual calls to a server. This implementation allows the application programmer to specify the number of tries and the time between each try of the message requests. Internally, it stores the message and retries the specified number of times to send a message. A programmer supplied callback is invoked after successful invocation of the message. If the message cannot be transmitted within the given number of tries, the supplied callback is invoked with a flag indicating the failure status.

Security Service: CSS will provide wrapper functions on top of the OODCE class libraries for the application programmers to specify and use the underlying security mechanisms: Authentication, Authorization, Integrity and Privacy. Most of the functionality in this section will come under Authorization involving creating and maintaining ACLs and ACL databases.

3.2 Physical Configuration and Workstation Requirements

EP6 configuration is composed of three components: EP6 Client, EP6 Application servers, and EP6 System servers. As shown in Figure 3-1, the EP6 Application server components will be deployed on epserver (192.150.28.17) and epdataserver (192.150.28.17) located within the ECS EDF facility.

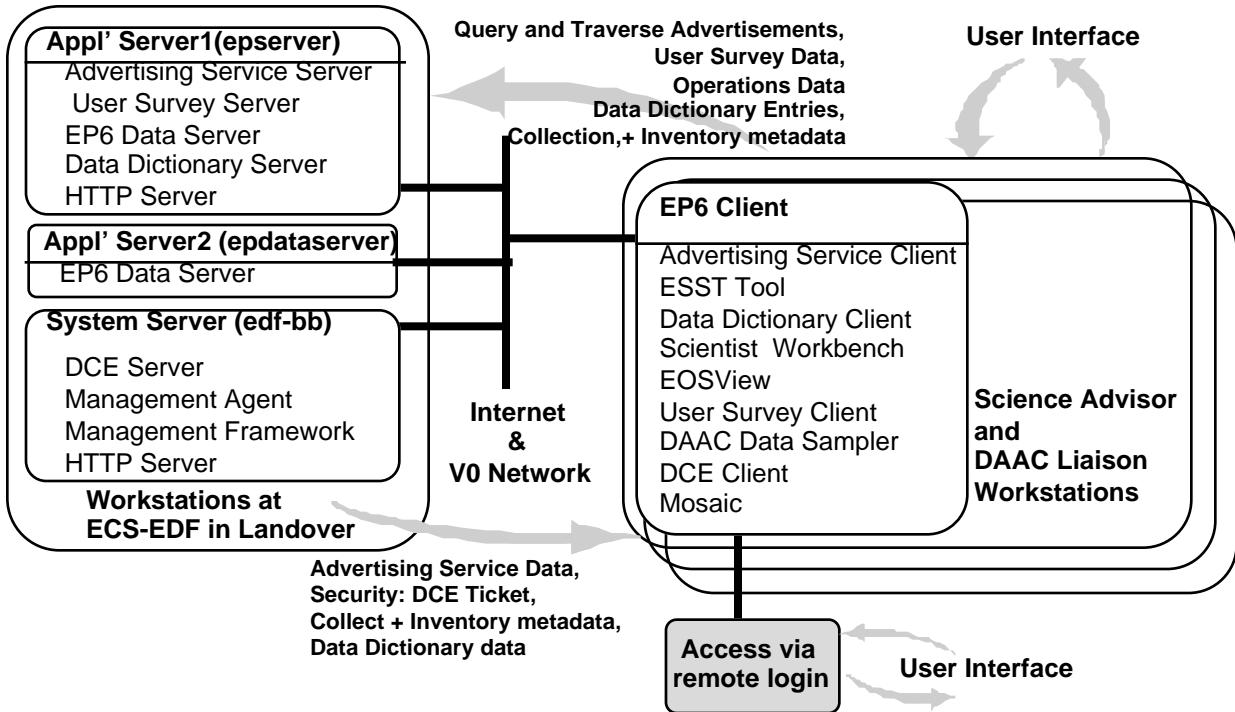


Figure 3-1 EP6 Physical Configuration

The EP6 client will be deployed at multiple locations. EP6 Client will be hosted by every compatible ECS DAAC Liaison Workstation (Table 3-1). EP6 will also be deployed on several compatible EP Science Advisors workstations (Table 3-2). EP6 software was ported to two platforms:

Hewlett Packard: HP UX 9.0.5 Operating System

SUN Sparc xx: 2.4 Operating System

Workstation requirements to host EP6 client is a 32MB of main memory and about 250MB of disk. Installation of all EP6 components at all locations, including the Science Advisor workstations, will be performed by the I&T team. Installation instructions are provided in Appendix A.

Table 3-1 DAAC Workstations Hosting EP6 Client

DAAC	Machine Name	Machine Type
ASF	Trouble	HP
EDC	ECS-HP1	HP
EDF	Epserver	HP
EDF	Epdataserver	SUN
GSFC	ECSGSFC1	HP
JPL	Searider	Sun
JPL	Wave	HP
LaRC	ECS	HP
MSFC	Hydra	HP
NSIDC	Snowfall	HP

Table 3-2 EP6 Science Advisors

Science Advisor/ Affiliation	Affiliation / Host Type
Dan Baldwin, Bill Emery	Univ. of Colorado
Peter Evans, Bob Evans	University of Miami
Sundar Christopher, Ron Welch, Manuel Penalosa	South Dakota School of Mines
Nigel Hinds, Tony England	Univ Of Michigan
Liz Smith, Menas Kafados	GSFC
David Glover, Mike Caruso	Woods Hole
Paul Bailey, Cheryl Criag	NCAR
Dave Emmitt, SidWood	Univ of Virginia
Simon Hook, Edward Olsen	JPL
Wayne Higgins, Chris Justice	GSFC
Chris Justice	GSFC
Debbie Blake	ESDIS-GSFC

3.3 EP4 and PW1 Comments Incorporated

The purpose of EPs is to gather comments on portions of ECS prior to a release so that ECS can be modified with respect to the comments recorded during the evaluation.

EP6 is significantly different than EP4 and PW1. Major changes are due to comments made during the ECS SRR. The architecture of ECS was changed to be more open, reflecting an interoperability infrastructure. This global change made the specific implementations shown in EP4 obsolete. EP6 represents the true beginning of the ECS architecture in the object oriented arena with distributed client server applications using OODCE.

EP4 and PW1 Evaluation results were presented at the EP6 Objectives Review. The analysis and summarization of survey results and the direct comments yielded the top-level conclusions.

Table 3-3 Response to EP4 and PW1 Evaluation Comments

Evaluation Comments	Response
Provide the associated science data and browse data along with the meta data	Metadata, science data and browse data provided for the following data sets ERBE S-4G AVHRR 1km NDVI ISSCP_C2
The User interface should follow a style guide and maintain consistency in look and feel.	ECS HCI style guide is followed closely through out the development of the user interface, including the selection of fonts, placement of buttons.
Provide better user control over the ECS environment.	Adding User Preference Tool to customize user preferences
Provide feedback indicators	Providing busy indicators like stop watch while the user is waiting for response (system processing)
Improve ease of use of EOSView	Providing the following capabilities: - view metadata of images selected - highlight image files - rename/reword text describing the images - reduce HDF specific information describing the contents of HDF files
Improve Desktop navigation and file management	Providing hierarchical views of files and the capability to move and select files.
Improve the use of Boolean operators	Providing more intuitive use of the Boolean operators "AND" and "OR".
Improve ESST	Providing links to HTML based information from ESST
Improve Data Dictionary Service	Providing Temporal/Spatial Valid, Keyword Definition Enhancements.
Provide end to end scenarios	EP Strategic Plan has included two end to end scenarios.
Provide Help capabilities	Providing basic help capability

3.4 Functionality not Provided in EP6

The following table presents the functionality that was stated in the Obejectives Review and is not included in EP6.

Table 3-4 Functionality not Provided in EP6

Functional Deficiency (from stated Objectives)	Reason
ESST: For attributes, such as geophysical parameters, which possess extensive valid value listings, a nesting widget will be employed to simplify the selection of the valid values. This widget organizes data hierarchically, allowing them to be conveniently grouped for fast access. For valid values, this facilitates segregation of the valid values into groups which can be accessed independently. There is no limitation to the number of groups which can be nested within one another. Note that domain values for an attribute which are not currently valid will be displayed in grayed-out form.	Nesting widget is developed for use within ESST. However, since the data available for EP6 does not have extensive valid groupings, this particular capability is not implemented in EP6 software.
ESST: Data may be dynamically re-aggregated by other than the default aggregation parameters to facilitate speedy and efficient access to the precise data the user wishes to identify.	Insufficient development time to provide in EP6
Desktop Manager: tabular display of desktop objects.	Table display is present, but the table consists of icons as opposed to text (file names).
ESST: Dependant valids are not supported	Insufficient development time to provide in EP6
Data Dictionary Tool: Aliases are not supported.	Insufficient development time to provide in EP6

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4. Product Inventory

4.1 EP6 Release Files

The EP6 Release Consists of 4 Tarfiles:

- 1) **EP6 Dataserver Files** (EP6_SERVER_SUN5_120195.tar)
- 2) **EP6 HP Client Files** (EP6_CLIENT_HP_120195.tar)
- 3) **EP6 SUN5 Client FIELDS** (EP6_CLIENT_SUN5_120195.tar)
- 4) **EP6 HP Application Server FIELDS** (EP6_SERVER_HP_120195.tar)

4.2 EP6 Dataserver Files

The EP6 Dataserver files consists of all the binaries and libraries for SUN5 server machines delivered as one tar file: EP6_SERVER_SUN5_120195.tar. These files need approximately 20 MB of disk space. These files reside on the 'epdatasrv' server.

It consists of the following directory structure:

```
|____ bin  
|____ sun5
```

4.2.1 EP6 Dataserver Tarfile Contents:

```
x ., 0 bytes, 0 tape blocks  
x ./bin, 0 bytes, 0 tape blocks  
x ./bin/sun5, 0 bytes, 0 tape blocks  
x ./bin/sun5/shtest, 708884 bytes, 1385 tape blocks  
x ./bin/sun5/srtest, 2034344 bytes, 3974 tape blocks  
x ./bin/sun5/gltest, 707340 bytes, 1382 tape blocks  
x ./bin/sun5/sdsrv, 4630924 bytes, 9045 tape blocks  
x ./bin/sun5/ep6css.cnfg, 2967 bytes, 6 tape blocks  
x ./bin/sun5/dbtest, 1631360 bytes, 3187 tape blocks  
x ./bin/sun5/mdtest, 2759764 bytes, 5391 tape blocks  
x ./bin/sun5/ddtest, 2306756 bytes, 4506 tape blocks  
x ./bin/sun5/dsquit, 1273264 bytes, 2487 tape blocks  
x ./bin/sun5/gui, 2373864 bytes, 4637 tape blocks  
x ./bin/sun5/inspecttest, 2332404 bytes, 4556 tape blocks  
x ./bin/sun5/archtest, 650872 bytes, 1272 tape blocks
```

4.3 EP6 HP Client Files

The EP6 HP Client files consists of all the binaries and libraries for HP Client machines delivered as one tar file: EP6_CLIENT_HP_120195.tar. These files need approximately 90 MB of disk space. These files reside on the end user HP platform (DAAC / Tirekicker workstations).

It consists of the following directory structure:

```
_____bin  
|_____data  
|   |_____defaults  
|   |   |_____ecs_preferences  
|   |   |_____icons  
|   |   |_____log  
|   |   |_____msgs  
|   |_____sample_ecs
```

4.3.1 EP6 HP Client Tarfile Contents:

```
x ./bin/ecs, 6930952 bytes, 13538 tape blocks  
x ./bin/ECS, 1619 bytes, 4 tape blocks  
x ./bin/Mosaic, 1716224 bytes, 3352 tape blocks  
x ./data/defaults/ECS_Application, 1680 bytes, 4 tape blocks  
x ./data/ecs_preferences/desktop_preferences, 139 bytes, 1 tape blocks  
x ./data/ecs_preferences/esst_preferences, 464 bytes, 1 tape blocks  
x ./data/ecs_preferences/prodordr_preferences, 319 bytes, 1 tape blocks  
x ./data/icons/adserv_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/apps_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/arrow_down.xbm, 590 bytes, 2 tape blocks  
x ./data/icons/arrow_right.xbm, 588 bytes, 2 tape blocks  
x ./data/icons/binary.xpm, 1574 bytes, 4 tape blocks  
x ./data/icons/browse.xpm, 3159 bytes, 7 tape blocks  
x ./data/icons/convert.xpm, 3287 bytes, 7 tape blocks  
x ./data/icons/dasd1.xpm, 1609 bytes, 4 tape blocks  
x ./data/icons/data.xpm, 1608 bytes, 4 tape blocks  
x ./data/icons/database.xpm, 1612 bytes, 4 tape blocks  
x ./data/icons/datadict_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/dirblue.l.bm, 1194 bytes, 3 tape blocks  
x ./data/icons/dirblue.l.pm, 1630 bytes, 4 tape blocks
```

x ./data/icons/dirblue.s.pm, 927 bytes, 2 tape blocks
x ./data/icons/dirup.l.pm, 1750 bytes, 4 tape blocks
x ./data/icons/document2.xpm, 1387 bytes, 3 tape blocks
x ./data/icons/earth1.xpm, 1610 bytes, 4 tape blocks
x ./data/icons/ecs-bin.xpm, 2093 bytes, 5 tape blocks
x ./data/icons/ecs.xbm, 2933 bytes, 6 tape blocks
x ./data/icons/ecs_m.xbm, 2943 bytes, 6 tape blocks
x ./data/icons/eosview_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/esst_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/execute-s.xpm, 1116 bytes, 3 tape blocks
x ./data/icons/execute.l.bm, 1506 bytes, 3 tape blocks
x ./data/icons/execute.l.pm, 2093 bytes, 5 tape blocks
x ./data/icons/file_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/help_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/logo.xpm.big, 49687 bytes, 98 tape blocks
x ./data/icons/logo.xpm, 31884 bytes, 63 tape blocks
x ./data/icons/newlogo.xpm, 32062 bytes, 63 tape blocks
x ./data/icons/prefs_32_V2.pm, 7364 bytes, 15 tape blocks
x ./data/icons/register_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/search.xpm, 1931 bytes, 4 tape blocks
x ./data/icons/search_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/space.xpm, 1608 bytes, 4 tape blocks
x ./data/icons/subset.xpm, 2938 bytes, 6 tape blocks
x ./data/icons/survey_32_V3.pm, 7364 bytes, 15 tape blocks
x ./data/icons/systemlogo.gif, 4272 bytes, 9 tape blocks
x ./data/icons/tcontent.xpm, 1612 bytes, 4 tape blocks
x ./data/icons/transform.xpm, 1897 bytes, 4 tape blocks
x ./data/icons/trouble_tik_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/usr_acct_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/adbserv_32.xpm, 1943 bytes, 4 tape blocks
x ./data/icons/apps_32.xpm, 1523 bytes, 3 tape blocks
x ./data/icons/datadict_32.xpm, 2216 bytes, 5 tape blocks
x ./data/icons/eosview_32.xpm, 1817 bytes, 4 tape blocks
x ./data/icons/esst_32.xpm, 1943 bytes, 4 tape blocks
x ./data/icons/file_32.xpm, 1733 bytes, 4 tape blocks
x ./data/icons/help_32.xpm, 1565 bytes, 4 tape blocks
x ./data/icons/prefs_32.xpm, 1502 bytes, 3 tape blocks
x ./data/icons/register_32.xpm, 1607 bytes, 4 tape blocks
x ./data/icons/request_32.xpm, 1901 bytes, 4 tape blocks
x ./data/icons/search_32.xpm, 1838 bytes, 4 tape blocks
x ./data/icons/survey_32.xpm, 1502 bytes, 3 tape blocks
x ./data/icons/usr_acct_32.xpm, 1544 bytes, 4 tape blocks
x ./data/icons/trouble_tik_32.xpm, 1544 bytes, 4 tape blocks
x ./data/icons/go_up_icon.pm, 1531 bytes, 3 tape blocks
x ./data/icons/desktop_32.pm, 1670 bytes, 4 tape blocks
x ./data/log/loginHelp.txt, 1544 bytes, 4 tape blocks
x ./datamsgs/errors.wbn, 1088 bytes, 3 tape blocks
x ./data/sample_ecs/Advertising Service, 108 bytes, 1 tape blocks

```
x ./data/sample_ecs/Comment Survey, 111 bytes, 1 tape blocks
x ./data/sample_ecs/Data Dictionary, 114 bytes, 1 tape blocks
x ./data/sample_ecs/User Profile, 113 bytes, 1 tape blocks
x ./data/sample_ecs/EOSView, 76 bytes, 1 tape blocks
x ./data/sample_ecs/Trouble Ticketing, 121 bytes, 1 tape blocks
x ./data/sample_ecs/User Preference Tool, 70 bytes, 1 tape blocks
x ./data/sample_ecs/Earth Science Search Tool, 82 bytes, 1 tape blocks
x ./data/sample_ecs/Product Request Tool, 88 bytes, 1 tape blocks
x ./bin/esst, 34486556 bytes, 67357 tape blocks
x ./bin/upt, 3195744 bytes, 6242 tape blocks
x ./data/defaults/SearchTool, 40029 bytes, 79 tape blocks
x ./data/dbrc.csh, 175 bytes, 1 tape blocks
x ./data/default.set, 6196 bytes, 13 tape blocks
x ./data/dictfile, 52451 bytes, 103 tape blocks
x ./data/esst.env, 189 bytes, 1 tape blocks
x ./data/grid.bin, 1080 bytes, 3 tape blocks
x ./data/map1.bin, 200880 bytes, 393 tape blocks
x ./data/map2.bin, 176504 bytes, 345 tape blocks
x ./data/map3.bin, 90120 bytes, 177 tape blocks
x ./data/test.cnf, 1077 bytes, 3 tape blocks
x ./data/timeline.dat, 89 bytes, 1 tape blocks
x ./bin/EOSView, 3256548 bytes, 6361 tape blocks
x ./bin/eosview.csc, 36455 bytes, 72 tape blocks
x ./bin/eosview.uid, 139264 bytes, 272 tape blocks
x ./bin/IoAdInstall, 94208 bytes, 184 tape blocks
```

4.4 EP6 SUN5 Client Files

The EP6 SUN5 Client files consists of all the binaries and libraries for SUN5 Client machines delivered as one tar file: EP6_CLIENT_SUN5_120195.tar. These files need approximately 30 MB of disk space. These files reside on the end user SUN platform (DAAC / Tirekicker workstations).

It consists of the following directory structure:

```
_____bin
_____data
    |_____defaults
        |_____ecs_preferences
        |_____icons
        |_____log
```

```
|____ msgs  
|____ sample_ecs
```

4.4.1 EP6 SUN5 Client Tarfile Contents:

```
x ./bin/ecs, 1925760 bytes, 3762 tape blocks  
x ./bin/ECS, 1619 bytes, 4 tape blocks  
x ./bin/Mosaic, 1846260 bytes, 3606 tape blocks  
x ./data, 0 bytes, 0 tape blocks  
x ./data/defaults, 0 bytes, 0 tape blocks  
x ./data/defaults/ECS_Application, 1680 bytes, 4 tape blocks  
x ./data/ecs_preferences, 0 bytes, 0 tape blocks  
x ./data/ecs_preferences/desktop_preferences, 139 bytes, 1 tape blocks  
x ./data/ecs_preferences/esst_preferences, 464 bytes, 1 tape blocks  
x ./data/ecs_preferences/prodordr_preferences, 319 bytes, 1 tape blocks  
x ./data/icons, 0 bytes, 0 tape blocks  
x ./data/icons/adserv_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/apps_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/arrow_down.xbm, 590 bytes, 2 tape blocks  
x ./data/icons/arrow_right.xbm, 588 bytes, 2 tape blocks  
x ./data/icons/binary.xpm, 1574 bytes, 4 tape blocks  
x ./data/icons/browse.xpm, 3159 bytes, 7 tape blocks  
x ./data/icons/convert.xpm, 3287 bytes, 7 tape blocks  
x ./data/icons/dasd1.xpm, 1609 bytes, 4 tape blocks  
x ./data/icons/data.xpm, 1608 bytes, 4 tape blocks  
x ./data/icons/database.xpm, 1612 bytes, 4 tape blocks  
x ./data/icons/datadict_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/dirblue.l.bm, 1194 bytes, 3 tape blocks  
x ./data/icons/dirblue.l.pm, 1630 bytes, 4 tape blocks  
x ./data/icons/dirblue.s.pm, 927 bytes, 2 tape blocks  
x ./data/icons/dirup.l.pm, 1750 bytes, 4 tape blocks  
x ./data/icons/document2.xpm, 1387 bytes, 3 tape blocks  
x ./data/icons/earth1.xpm, 1610 bytes, 4 tape blocks  
x ./data/icons/ecs-bin.xpm, 2093 bytes, 5 tape blocks  
x ./data/icons/ecs.xbm, 2933 bytes, 6 tape blocks  
x ./data/icons/ecs_m.xbm, 2943 bytes, 6 tape blocks  
x ./data/icons/eosview_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/esst_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/execute-s.xpm, 1116 bytes, 3 tape blocks  
x ./data/icons/execute.l.bm, 1506 bytes, 3 tape blocks  
x ./data/icons/execute.l.pm, 2093 bytes, 5 tape blocks  
x ./data/icons/file_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/help_32.pm, 7364 bytes, 15 tape blocks  
x ./data/icons/logo.xpm.big, 49687 bytes, 98 tape blocks  
x ./data/icons/logo.xpm, 31884 bytes, 63 tape blocks  
x ./data/icons/newlogo.xpm, 32062 bytes, 63 tape blocks  
x ./data/icons/prefs_32_V2.pm, 7364 bytes, 15 tape blocks
```

x ./data/icons/register_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/search.xpm, 1931 bytes, 4 tape blocks
x ./data/icons/search_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/space.xpm, 1608 bytes, 4 tape blocks
x ./data/icons/subset.xpm, 2938 bytes, 6 tape blocks
x ./data/icons/survey_32_V3.pm, 7364 bytes, 15 tape blocks
x ./data/icons/systemlogo.gif, 4272 bytes, 9 tape blocks
x ./data/icons/tcontent.xpm, 1612 bytes, 4 tape blocks
x ./data/icons/transform.xpm, 1897 bytes, 4 tape blocks
x ./data/icons/trouble_tik_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/usr_acct_32.pm, 7364 bytes, 15 tape blocks
x ./data/icons/adserv_32.xpm, 1943 bytes, 4 tape blocks
x ./data/icons/apps_32.xpm, 1523 bytes, 3 tape blocks
x ./data/icons/datadict_32.xpm, 2216 bytes, 5 tape blocks
x ./data/icons/eosview_32.xpm, 1817 bytes, 4 tape blocks
x ./data/icons/esst_32.xpm, 1943 bytes, 4 tape blocks
x ./data/icons/file_32.xpm, 1733 bytes, 4 tape blocks
x ./data/icons/help_32.xpm, 1565 bytes, 4 tape blocks
x ./data/icons/prefs_32.xpm, 1502 bytes, 3 tape blocks
x ./data/icons/register_32.xpm, 1607 bytes, 4 tape blocks
x ./data/icons/request_32.xpm, 1901 bytes, 4 tape blocks
x ./data/icons/search_32.xpm, 1838 bytes, 4 tape blocks
x ./data/icons/survey_32.xpm, 1502 bytes, 3 tape blocks
x ./data/icons/usr_acct_32.xpm, 1544 bytes, 4 tape blocks
x ./data/icons/trouble_tik_32.xpm, 1544 bytes, 4 tape blocks
x ./data/icons/go_up_icon.pm, 1531 bytes, 3 tape blocks
x ./data/icons/desktop_32.pm, 1670 bytes, 4 tape blocks
x ./data/log, 0 bytes, 0 tape blocks
x ./data/log/loginHelp.txt, 1544 bytes, 4 tape blocks
x ./data/msg, 0 bytes, 0 tape blocks
x ./data/msg, 0 bytes, 0 tape blocks
x ./data/sample_ecs, 0 bytes, 0 tape blocks
x ./data/sample_ecs/Advertising Service, 108 bytes, 1 tape blocks
x ./data/sample_ecs/Comment Survey, 111 bytes, 1 tape blocks
x ./data/sample_ecs/Data Dictionary, 114 bytes, 1 tape blocks
x ./data/sample_ecs/User Profile, 113 bytes, 1 tape blocks
x ./data/sample_ecs/EOSView, 76 bytes, 1 tape blocks
x ./data/sample_ecs/Trouble Ticketing, 121 bytes, 1 tape blocks
x ./data/sample_ecs/User Preference Tool, 70 bytes, 1 tape blocks
x ./data/sample_ecs/Earth Science Search Tool, 82 bytes, 1 tape blocks
x ./data/sample_ecs/Product Request Tool, 88 bytes, 1 tape blocks
x ./bin/esst, 4412748 bytes, 8619 tape blocks
x ./bin/upt, 424308 bytes, 829 tape blocks
x ./data, 0 bytes, 0 tape blocks
x ./data/defaults, 0 bytes, 0 tape blocks
x ./data/defaults/SearchTool, 40029 bytes, 79 tape blocks
x ./data/dbrc.csh, 175 bytes, 1 tape blocks
x ./data/default.set, 6196 bytes, 13 tape blocks

```
x ./data/dictfile, 52451 bytes, 103 tape blocks
x ./data/esst.env, 189 bytes, 1 tape blocks
x ./data/grid.bin, 1080 bytes, 3 tape blocks
x ./data/map1.bin, 200880 bytes, 393 tape blocks
x ./data/map2.bin, 176504 bytes, 345 tape blocks
x ./data/map3.bin, 90120 bytes, 177 tape blocks
x ./data/test.cnf, 1077 bytes, 3 tape blocks
x ./data/timeline.dat, 89 bytes, 1 tape blocks
x ./bin/EOSView, 5410108 bytes, 10567 tape blocks
x ./bin/eosview.csc, 36455 bytes, 72 tape blocks
x ./bin/eosview.uid, 139264 bytes, 272 tape blocks
x ./bin/IoAdInstall, 113576 bytes, 222 tape blocks
```

4.5 EP6 HP Application Server Files

The EP6 HP Application Server files consists of all the binaries and libraries for HP Server machines delivered as one tar file: EP6_SERVER_HP.tar. These files need approximately 170 MB of disk space. These files reside on the 'epserver' server.

It consists of the following directory structure:

```
└── bin
    └── data
        ├── images
        └── discover
            └── bars
    └── cgi_bin
        └── MSS
    └── html
        └── IOS
```

4.5.1 EP6 HP Application Server Tarfile Contents:

```
x ./bin/hp/CIWbCs, 4738952 bytes, 9256 tape blocks
x ./bin/hp/CIWbDd, 4764580 bytes, 9306 tape blocks
x ./bin/hp/CIWbDdDisplayList, 4797788 bytes, 9371 tape blocks
x ./bin/hp/CIWbDdDisplayItem, 5506288 bytes, 10755 tape blocks
x ./bin/hp/CIWbHp, 2059392 bytes, 4023 tape blocks
x ./bin/hp/imagemap, 24576 bytes, 48 tape blocks
```

x ./bin/hp/nph-nothing, 77 bytes, 1 tape blocks
x ./bin/hp/CIWbUr, 5277972 bytes, 10309 tape blocks
x ./bin/hp/CIWbUrConfirm, 5267688 bytes, 10289 tape blocks
x ./bin/hp/CIWbUrSubmit, 5293104 bytes, 10339 tape blocks
x ./data/images/BlueBar.gif, 1594 bytes, 4 tape blocks
x ./data/images/Check.gif, 578 bytes, 2 tape blocks
x ./data/images/ClMsTt.gif, 238468 bytes, 466 tape blocks
x ./data/images/ClMsTt1.gif, 97797 bytes, 192 tape blocks
x ./data/images/CIWbCs1.gif, 69457 bytes, 136 tape blocks
x ./data/images/CIWbDd.gif, 39737 bytes, 78 tape blocks
x ./data/images/CIWbDd1.gif, 52311 bytes, 103 tape blocks
x ./data/images/CIWbDd2.gif, 58229 bytes, 114 tape blocks
x ./data/images/CIWbEp6Home.gif, 79428 bytes, 156 tape blocks
x ./data/images/CIWbEp6Home.map, 898 bytes, 2 tape blocks
x ./data/images/CIWbPr.gif, 67139 bytes, 132 tape blocks
x ./data/images/CIWbStIcons.gif, 18781 bytes, 37 tape blocks
x ./data/images/CIWbStRs.gif, 146428 bytes, 286 tape blocks
x ./data/images/CIWbStSc.gif, 57138 bytes, 112 tape blocks
x ./data/images/CIWbUp1.gif, 79964 bytes, 157 tape blocks
x ./data/images/CIWbUp2.gif, 74496 bytes, 146 tape blocks
x ./data/images/CIWbUpUp.gif, 13744 bytes, 27 tape blocks
x ./data/images/CIWbUpUp1.gif, 11908 bytes, 24 tape blocks
x ./data/images/CIWbUpUp2.gif, 8480 bytes, 17 tape blocks
x ./data/images/CIWbUpUp3.gif, 10280 bytes, 21 tape blocks
x ./data/images/CIWbUr.gif, 102410 bytes, 201 tape blocks
x ./data/images/CIWbUr1.gif, 93287 bytes, 183 tape blocks
x ./data/images/CIWba_up.gif, 206 bytes, 1 tape blocks
x ./data/images/DAAC_48.gif, 846 bytes, 2 tape blocks
x ./data/images/IoAdEos.gif, 1070 bytes, 3 tape blocks
x ./data/images/IoAdIndex.map, 2705 bytes, 6 tape blocks
x ./data/images/IoAdInstall.gif, 559 bytes, 2 tape blocks
x ./data/images/IoAdInvoke.gif, 553 bytes, 2 tape blocks
x ./data/images/IoAdNew.gif, 147 bytes, 1 tape blocks
x ./data/images/IoAdOrder.gif, 552 bytes, 2 tape blocks
x ./data/images/RedArrow.gif, 97 bytes, 1 tape blocks
x ./data/images/Temple.jpg, 2001 bytes, 4 tape blocks
x ./data/images/adserv_144.gif, 10537 bytes, 21 tape blocks
x ./data/images/adserv_32.gif, 643 bytes, 2 tape blocks
x ./data/images/adserv_48.gif, 2601 bytes, 6 tape blocks
x ./data/images/adserv_72.gif, 4146 bytes, 9 tape blocks
x ./data/images/apps_32.gif, 435 bytes, 1 tape blocks
x ./data/images/arrow_down.gif, 120 bytes, 1 tape blocks
x ./data/images/arrow_right.gif, 123 bytes, 1 tape blocks
x ./data/images/bomb2.gif, 653 bytes, 2 tape blocks
x ./data/images/collection_48.gif, 615 bytes, 2 tape blocks
x ./data/images/config_tlbar_48.gif, 622 bytes, 2 tape blocks
x ./data/images/datadict_32.gif, 835 bytes, 2 tape blocks
x ./data/images/datadict_48.gif, 2482 bytes, 5 tape blocks

x ./data/images/datadict_72.gif, 4277 bytes, 9 tape blocks
x ./data/images/day_night_48.gif, 983 bytes, 2 tape blocks
x ./data/images/desktop_32.gif, 497 bytes, 1 tape blocks
x ./data/images/desktop_48.gif, 670 bytes, 2 tape blocks
x ./data/images/eosview_32.gif, 593 bytes, 2 tape blocks
x ./data/images/eosview_48.gif, 1892 bytes, 4 tape blocks
x ./data/images/ep6_32.gif, 611 bytes, 2 tape blocks
x ./data/images/ep6_48.gif, 2343 bytes, 5 tape blocks
x ./data/images/ep6_72.gif, 3847 bytes, 8 tape blocks
x ./data/images/esst_32.gif, 638 bytes, 2 tape blocks
x ./data/images/esst_48.gif, 2196 bytes, 5 tape blocks
x ./data/images/esst_search1_5_2.gif, 76807 bytes, 151 tape blocks
x ./data/images/file_32.gif, 494 bytes, 1 tape blocks
x ./data/images/folder.gif, 182 bytes, 1 tape blocks
x ./data/images/go_up_icon.gif, 280 bytes, 1 tape blocks
x ./data/images/help_32.gif, 490 bytes, 1 tape blocks
x ./data/images/help_48.gif, 2283 bytes, 5 tape blocks
x ./data/images/help_72.gif, 2769 bytes, 6 tape blocks
x ./data/images/hierar.gif, 10642 bytes, 21 tape blocks
x ./data/images/iconic.gif, 9107 bytes, 18 tape blocks
x ./data/images/index_a-z.gif, 25463 bytes, 50 tape blocks
x ./data/images/para_group_48.gif, 676 bytes, 2 tape blocks
x ./data/images/para_topic_48.gif, 740 bytes, 2 tape blocks
x ./data/images/platform_48.gif, 947 bytes, 2 tape blocks
x ./data/images/prefs_32.gif, 470 bytes, 1 tape blocks
x ./data/images/prefs_48.gif, 548 bytes, 2 tape blocks
x ./data/images/register_32.gif, 436 bytes, 1 tape blocks
x ./data/images/register_48.gif, 2040 bytes, 4 tape blocks
x ./data/images/register_72.gif, 3060 bytes, 6 tape blocks
x ./data/images/request_32.gif, 626 bytes, 2 tape blocks
x ./data/images/request_32_V4.gif, 349 bytes, 1 tape blocks
x ./data/images/request_48.gif, 1953 bytes, 4 tape blocks
x ./data/images/search_32.gif, 596 bytes, 2 tape blocks
x ./data/images/search_48.gif, 1017 bytes, 2 tape blocks
x ./data/images/sensor_48.gif, 913 bytes, 2 tape blocks
x ./data/images/spatial_48.gif, 1029 bytes, 3 tape blocks
x ./data/images/stop.gif, 221 bytes, 1 tape blocks
x ./data/images/survey_32.gif, 454 bytes, 1 tape blocks
x ./data/images/survey_48.gif, 2063 bytes, 5 tape blocks
x ./data/images/survey_72.gif, 2880 bytes, 6 tape blocks
x ./data/images/temporal_48.gif, 669 bytes, 2 tape blocks
x ./data/images/tri-red.gif, 202 bytes, 1 tape blocks
x ./data/images/tri_bullet.gif, 97 bytes, 1 tape blocks
x ./data/images/trouble_tik_32.gif, 428 bytes, 1 tape blocks
x ./data/images/trouble_tik_48.gif, 1710 bytes, 4 tape blocks
x ./data/images/trouble_tik_72.gif, 2512 bytes, 5 tape blocks
x ./data/images/usr_acct_32.gif, 454 bytes, 1 tape blocks
x ./data/images/usr_acct_48.gif, 512 bytes, 1 tape blocks

x ./data/images/usr_acct_72.gif, 2200 bytes, 5 tape blocks
x ./data/CIWbCsFoot.tmpl, 797 bytes, 2 tape blocks
x ./data/CIWbCsHead.tmpl, 283 bytes, 1 tape blocks
x ./data/CIWbCsIndexBody.tmpl, 254 bytes, 1 tape blocks
x ./data/CIWbCsIndexDesc.tmpl, 629 bytes, 2 tape blocks
x ./data/CIWbCsSubmitDesc.tmpl, 95 bytes, 1 tape blocks
x ./data/CIWbCsSurveyBody.tmpl, 564 bytes, 2 tape blocks
x ./data/CIWbCsSurveyBody.tmpl2, 546 bytes, 2 tape blocks
x ./data/CIWbCsSurveyDesc.tmpl, 701 bytes, 2 tape blocks
x ./data/CIWbCsSurveyDesc.tmpl2, 514 bytes, 2 tape blocks
x ./data/CIWbCsSurveyFoot.tmpl, 1267 bytes, 3 tape blocks
x ./data/CIWbCsSurveyFoot.tmpl2, 1159 bytes, 3 tape blocks
x ./data/CIWbDdAcronymDesc.tmpl, 69 bytes, 1 tape blocks
x ./data/CIWbDdAllName.tmpl, 21 bytes, 1 tape blocks
x ./data/CIWbDdAllRef.tmpl, 201 bytes, 1 tape blocks
x ./data/CIWbDdChannelDesc.tmpl, 451 bytes, 1 tape blocks
x ./data/CIWbDdDataCollectionDesc.tmpl, 1697 bytes, 4 tape blocks
x ./data/CIWbDdDataCollectionLink.tmpl, 188 bytes, 1 tape blocks
x ./data/CIWbDdFoot.tmpl, 797 bytes, 2 tape blocks
x ./data/CIWbDdForm.tmpl, 1394 bytes, 3 tape blocks
x ./data/CIWbDdFormBody.tmpl, 932 bytes, 2 tape blocks
x ./data/CIWbDdFormDesc.tmpl, 525 bytes, 2 tape blocks
x ./data/CIWbDdGlossaryDesc.tmpl, 95 bytes, 1 tape blocks
x ./data/CIWbDdHead.tmpl, 283 bytes, 1 tape blocks
x ./data/CIWbDdIndex.tmpl, 1826 bytes, 4 tape blocks
x ./data/CIWbDdInstrumentDesc.tmpl, 659 bytes, 2 tape blocks
x ./data/CIWbDdInstrumentLink.tmpl, 171 bytes, 1 tape blocks
x ./data/CIWbDdListBody.tmpl, 189 bytes, 1 tape blocks
x ./data/CIWbDdListDesc.tmpl, 88 bytes, 1 tape blocks
x ./data/CIWbDdListHead.tmpl, 1004 bytes, 2 tape blocks
x ./data/CIWbDdParameterGroupDesc.tmpl, 235 bytes, 1 tape blocks
x ./data/CIWbDdParameterGroupLink.tmpl, 188 bytes, 1 tape blocks
x ./data/CIWbDdParameterTopicDesc.tmpl, 749 bytes, 2 tape blocks
x ./data/CIWbDdParameterTopicLink.tmpl, 188 bytes, 1 tape blocks
x ./data/CIWbDdPlatformDesc.tmpl, 138 bytes, 1 tape blocks
x ./data/CIWbDdPlatformLink.tmpl, 167 bytes, 1 tape blocks
x ./data/CIWbDdSearchHead.tmpl, 1006 bytes, 2 tape blocks
x ./data/CIWbDdSensorDesc.tmpl, 887 bytes, 2 tape blocks
x ./data/CIWbDdSiteDesc.tmpl, 298 bytes, 1 tape blocks
x ./data/CIWbDdSiteLink.tmpl, 151 bytes, 1 tape blocks
x ./data/CIWbEp6Home.html, 6959 bytes, 14 tape blocks
x ./data/CIWbHpCsBody.tmpl, 2281 bytes, 5 tape blocks
x ./data/CIWbHpDdBody.tmpl, 3155 bytes, 7 tape blocks
x ./data/CIWbHpDdHintsBody.tmpl, 2862 bytes, 6 tape blocks
x ./data/CIWbHpDtBody.tmpl, 5962 bytes, 12 tape blocks
x ./data/CIWbHpFoot.tmpl, 359 bytes, 1 tape blocks
x ./data/CIWbHpHead.tmpl, 283 bytes, 1 tape blocks
x ./data/CIWbHpIndexBody.tmpl, 1607 bytes, 4 tape blocks

x ./data/CIWbHpIoBody.tmpl, 2511 bytes, 5 tape blocks
x ./data/CIWbHpPrBody.tmpl, 2855 bytes, 6 tape blocks
x ./data/CIWbHpStBody.tmpl, 9365 bytes, 19 tape blocks
x ./data/CIWbHpTtBody.tmpl, 2905 bytes, 6 tape blocks
x ./data/CIWbHpUp2Body.tmpl, 2288 bytes, 5 tape blocks
x ./data/CIWbHpUpBody.tmpl, 2881 bytes, 6 tape blocks
x ./data/CIWbHpUrBody.tmpl, 2731 bytes, 6 tape blocks
x ./data/ep6trr.ps, 3078837 bytes, 6014 tape blocks
x ./data/CIWbUrConfProDesc.tmpl, 498 bytes, 1 tape blocks
x ./data/CIWbUrConfReqDesc.tmpl, 377 bytes, 1 tape blocks
x ./data/CIWbUrFoot.tmpl, 797 bytes, 2 tape blocks
x ./data/CIWbUrHead.tmpl, 240 bytes, 1 tape blocks
x ./data/CIWbUrProfileBody.tmpl, 4826 bytes, 10 tape blocks
x ./data/CIWbUrProfileBody.tmpl2, 3698 bytes, 8 tape blocks
x ./data/CIWbUrProfileDesc.tmpl, 860 bytes, 2 tape blocks
x ./data/CIWbUrRequestBody.tmpl, 2889 bytes, 6 tape blocks
x ./data/CIWbUrRequestBody.tmpl2, 2299 bytes, 5 tape blocks
x ./data/CIWbUrRequestDesc.tmpl, 1272 bytes, 3 tape blocks
x ./data/CIWbUrSubmitDesc.tmpl, 95 bytes, 1 tape blocks
x ./cgi-bin/CLS/CIWbCs symbolic link to ../../bin/hp/CIWbCs
x ./cgi-bin/CLS/CIWbDd symbolic link to ../../bin/hp/CIWbDd
x ./cgi-bin/CLS/CIWbDdDisplayList symbolic link to ../../bin/hp/CIWbDdDisplayList
x ./cgi-bin/CLS/CIWbDdDisplayItem symbolic link to ../../bin/hp/CIWbDdDisplayItem
x ./cgi-bin/CLS/CIWbHp symbolic link to ../../bin/hp/CIWbHp
x ./cgi-bin/CLS/imagemap symbolic link to ../../bin/hp/imagemap
x ./cgi-bin/CLS/nph-nothing symbolic link to ../../bin/hp/nph-nothing
x ./cgi-bin/CLS/CIWbUr symbolic link to ../../bin/hp/CIWbUr
x ./cgi-bin/CLS/CIWbUrConfirm symbolic link to ../../bin/hp/CIWbUrConfirm
x ./cgi-bin/CLS/CIWbUrSubmit symbolic link to ../../bin/hp/CIWbUrSubmit
x ./html/CLS/CST symbolic link to ../../data
x ./html/CLS/DDT symbolic link to ../../data
x ./html/CLS/HPT symbolic link to ../../data
x ./html/CLS/URT symbolic link to ../../data
x ./html/images symbolic link to ./data/images
x ./html/.index.html symbolic link to CLS/HPT/CIWbEp6Home.html
x ./html/CIWbEp6Home.html symbolic link to CLS/HPT/CIWbEp6Home.html
x ./bin/hp/ddsSrv, 11455856 bytes, 22375 tape blocks
x ./bin/hp/ddsSrvStart.csh, 49 bytes, 1 tape blocks
x ./bin/hp/ddsSrvStart.it, 49 bytes, 1 tape blocks
x ./bin/hp/ddsSrvStart.dv, 48 bytes, 1 tape blocks
x ./bin/hp/ddsSrvStart.op, 62 bytes, 1 tape blocks
x ./bin/hp/username.pwd, 56 bytes, 1 tape blocks
x ./bin/IoAdAttSrch, 1828992 bytes, 3573 tape blocks
x ./bin/IoAdDetail, 1824896 bytes, 3565 tape blocks
x ./bin/IoAdGenSrch, 1828992 bytes, 3573 tape blocks
x ./bin/IoAdInvoke, 1820800 bytes, 3557 tape blocks
x ./bin/IoAdNewAd, 1820800 bytes, 3557 tape blocks
x ./bin/IoAdPage, 1820800 bytes, 3557 tape blocks

x ./bin/hp/IoAdInvoke, 1820800 bytes, 3557 tape blocks
x ./bin/hp/IoAdDetail, 1824896 bytes, 3565 tape blocks
x ./bin/hp/IoAdGenSrch, 1828992 bytes, 3573 tape blocks
x ./bin/hp/IoAdNewAd, 1820800 bytes, 3557 tape blocks
x ./bin/hp/IoAdPage, 1820800 bytes, 3557 tape blocks
x ./bin/hp/IoAdAttSrch, 1828992 bytes, 3573 tape blocks
x ./bin/hp/IoAdInstall, 94208 bytes, 184 tape blocks
x ./data/IoAdAbout.html, 2542 bytes, 5 tape blocks
x ./data/IoAdAttSrchHelp.html, 4122 bytes, 9 tape blocks
x ./data/IoAdAttrCrit tmpl, 598 bytes, 2 tape blocks
x ./data/IoAdAttribute.html, 1319 bytes, 3 tape blocks
x ./data/IoAdAttribute tmpl, 39 bytes, 1 tape blocks
x ./data/IoAdClient tmpl, 109 bytes, 1 tape blocks
x ./data/IoAdDetail tmpl, 348 bytes, 1 tape blocks
x ./data/IoAdEosProd tmpl, 359 bytes, 1 tape blocks
x ./data/IoAdFooter tmpl, 780 bytes, 2 tape blocks
x ./data/IoAdGenSrchHelp.html, 3774 bytes, 8 tape blocks
x ./data/IoAdHeader tmpl, 271 bytes, 1 tape blocks
x ./data/IoAdHome.html, 993 bytes, 2 tape blocks
x ./data/IoAdIndex.html, 483 bytes, 1 tape blocks
x ./data/IoAdNoHelp.html, 79 bytes, 1 tape blocks
x ./data/IoAdProd tmpl, 245 bytes, 1 tape blocks
x ./data/IoAdSearch.html, 1417 bytes, 3 tape blocks
x ./data/IoAdSrchCrit tmpl, 462 bytes, 1 tape blocks
x ./data/IoAdSrchResult tmpl, 83 bytes, 1 tape blocks
x ./data/IoAdSubmit.html, 2103 bytes, 5 tape blocks
x ./data/IoAdSubmitHelp.html, 3313 bytes, 7 tape blocks
x ./data/IoAdTimeMap tmpl, 150 bytes, 1 tape blocks
x ./data/bars/attribute.gif, 388 bytes, 1 tape blocks
x ./data/bars/home.gif, 348 bytes, 1 tape blocks
x ./data/bars/index.gif, 356 bytes, 1 tape blocks
x ./data/bars/search.gif, 363 bytes, 1 tape blocks
x ./data/bars/submit.gif, 392 bytes, 1 tape blocks
x ./data/bars/whatis.gif, 372 bytes, 1 tape blocks
x ./cgi-bin/IOS/IoAdAttSrch symbolic link to ../../bin/IoAdAttSrch
x ./cgi-bin/IOS/IoAdDetail symbolic link to ../../bin/IoAdDetail
x ./cgi-bin/IOS/IoAdGenSrch symbolic link to ../../bin/IoAdGenSrch
x ./cgi-bin/IOS/IoAdInvoke symbolic link to ../../bin/IoAdInvoke
x ./cgi-bin/IOS/IoAdNewAd symbolic link to ../../bin/IoAdNewAd
x ./cgi-bin/IOS/IoAdPage symbolic link to ../../bin/IoAdPage
x ./cgi-bin/IOS/hp symbolic link to ../../bin/hp
x ./html/IOS/bars/attribute.gif symbolic link to ../../data/bars/attribute.gif
x ./html/IOS/bars/home.gif symbolic link to ../../data/bars/home.gif
x ./html/IOS/bars/index.gif symbolic link to ../../data/bars/index.gif
x ./html/IOS/bars/search.gif symbolic link to ../../data/bars/search.gif
x ./html/IOS/bars/submit.gif symbolic link to ../../data/bars/submit.gif
x ./html/IOS/bars/whatis.gif symbolic link to ../../data/bars/whatis.gif
x ./html/IOS/IoAdAbout.html symbolic link to ../../data/IoAdAbout.html

x ./html/IOS/IoAdAttSrchHelp.html symbolic link to ../../data/IoAdAttSrchHelp.html
x ./html/IOS/IoAdAttrCrit.tmpl symbolic link to ../../data/IoAdAttrCrit.tmpl
x ./html/IOS/IoAdAttribute.html symbolic link to ../../data/IoAdAttribute.html
x ./html/IOS/IoAdAttribute.tmpl symbolic link to ../../data/IoAdAttribute.tmpl
x ./html/IOS/IoAdClient.tmpl symbolic link to ../../data/IoAdClient.tmpl
x ./html/IOS/IoAdDetail.tmpl symbolic link to ../../data/IoAdDetail.tmpl
x ./html/IOS/IoAdEosProd.tmpl symbolic link to ../../data/IoAdEosProd.tmpl
x ./html/IOS/IoAdFooter.tmpl symbolic link to ../../data/IoAdFooter.tmpl
x ./html/IOS/IoAdGenSrchHelp.html symbolic link to ../../data/IoAdGenSrchHelp.html
x ./html/IOS/IoAdHeader.tmpl symbolic link to ../../data/IoAdHeader.tmpl
x ./html/IOS/IoAdHome.html symbolic link to ../../data/IoAdHome.html
x ./html/IOS/IoAdIndex.html symbolic link to ../../data/IoAdIndex.html
x ./html/IOS/IoAdNoHelp.html symbolic link to ../../data/IoAdNoHelp.html
x ./html/IOS/IoAdProd.tmpl symbolic link to ../../data/IoAdProd.tmpl
x ./html/IOS/IoAdSearch.html symbolic link to ../../data/IoAdSearch.html
x ./html/IOS/IoAdSrchCrit.tmpl symbolic link to ../../data/IoAdSrchCrit.tmpl
x ./html/IOS/IoAdSrchResult.tmpl symbolic link to ../../data/IoAdSrchResult.tmpl
x ./html/IOS/IoAdSubmit.html symbolic link to ../../data/IoAdSubmit.html
x ./html/IOS/IoAdSubmitHelp.html symbolic link to ../../data/IoAdSubmitHelp.html
x ./html/IOS/IoAdTimeMap.tmpl symbolic link to ../../data/IoAdTimeMap.tmpl
x ./bin/hp/MsAgSubagent, 4765028 bytes, 9307 tape blocks
x ./bin/hp/MsAcProfileMgrServer, 4982300 bytes, 9732 tape blocks
x ./bin/hp/MsAcViewUserFull, 4625736 bytes, 9035 tape blocks
x ./bin/hp/MsAcViewUsers, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcQuery, 1964972 bytes, 3838 tape blocks
x ./bin/hp/MsAcLogin, 1909720 bytes, 3730 tape blocks
x ./bin/hp/MsAcDeleteUser_c, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcUpdateUser_c, 1969068 bytes, 3846 tape blocks
x ./bin/hp/MsAcUpdateUser, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcDeleteUser, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcViewRequests, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcViewRequestFull, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcProcessRequest_c, 1969068 bytes, 3846 tape blocks
x ./bin/hp/MsAcCreateAccount, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcDeleteRequest, 4621640 bytes, 9027 tape blocks
x ./bin/hp/MsAcProfileMgrStart.csh, 233 bytes, 1 tape blocks
x ./bin/hp/MsAcProfileMgrStart.csh.dv, 234 bytes, 1 tape blocks
x ./bin/hp/MsAcProfileMgrStart.csh.it, 235 bytes, 1 tape blocks
x ./bin/hp/MsAcProfileMgrStart.csh.op, 248 bytes, 1 tape blocks
x ./bin/hp/MsAcProfileServer.keytab, 51 bytes, 1 tape blocks
x ./bin/hp/MsTtHTMLItems, 5252772 bytes, 10260 tape blocks
x ./bin/hp/MsTtHTMLMenu, 4621640 bytes, 9027 tape blocks
x ./bin/hp/EcCsSurveyMgrServer, 11517212 bytes, 22495 tape blocks
x ./bin/hp/EcCsSurveyMgrStart.csh, 96 bytes, 1 tape blocks
x ./bin/hp/EcCsSurveyMgrStart.csh.dv, 98 bytes, 1 tape blocks
x ./bin/hp/EcCsSurveyMgrStart.csh.it, 97 bytes, 1 tape blocks
x ./bin/hp/EcCsSurveyMgrStart.csh.op, 112 bytes, 1 tape blocks
x ./bin/hp/EcCsSurveyMgr.keytab, 56 bytes, 1 tape blocks

x ./data/ep6_footer.tmpl, 276 bytes, 1 tape blocks
x ./data/mscreateuser_head.tmpl, 253 bytes, 1 tape blocks
x ./data/msdeleterequest_head.tmpl, 270 bytes, 1 tape blocks
x ./data/msdeleteuser_c_body.tmpl, 1807 bytes, 4 tape blocks
x ./data/msdeleteuser_c_foot.tmpl, 9 bytes, 1 tape blocks
x ./data/msdeleteuser_c_head.tmpl, 675 bytes, 2 tape blocks
x ./data/msdeleteuser_head.tmpl, 254 bytes, 1 tape blocks
x ./data/mserror.tmpl, 589 bytes, 2 tape blocks
x ./data/mslogin_body.tmpl, 922 bytes, 2 tape blocks
x ./data/msprocessrequest_c_foot.tmpl, 9 bytes, 1 tape blocks
x ./data/msprocessrequest_c_head.tmpl, 699 bytes, 2 tape blocks
x ./data/msprocessrequest_c_head.tmpl.bak, 970 bytes, 2 tape blocks
x ./data/msquery_body.tmpl, 111 bytes, 1 tape blocks
x ./data/msquery_foot.tmpl, 185 bytes, 1 tape blocks
x ./data/msquery_head.tmpl, 811 bytes, 2 tape blocks
x ./data/msupdateuser_c_foot.tmpl, 9 bytes, 1 tape blocks
x ./data/msupdateuser_c_head.tmpl, 690 bytes, 2 tape blocks
x ./data/msupdateuser_head.tmpl, 254 bytes, 1 tape blocks
x ./data/msviewreq_body.tmpl, 130 bytes, 1 tape blocks
x ./data/msviewreq_head.tmpl, 512 bytes, 1 tape blocks
x ./data/msviewrequestfull_body.tmpl, 2826 bytes, 6 tape blocks
x ./data/msviewrequestfull_foot.tmpl, 231 bytes, 1 tape blocks
x ./data/msviewrequestfull_head.tmpl, 287 bytes, 1 tape blocks
x ./data/msviewrequests_body.tmpl, 257 bytes, 1 tape blocks
x ./data/msviewrequests_foot.tmpl, 10 bytes, 1 tape blocks
x ./data/msviewrequests_head.tmpl, 600 bytes, 2 tape blocks
x ./data/msviewuserfull_body.tmpl, 5085 bytes, 10 tape blocks
x ./data/msviewuserfull_foot.tmpl, 108 bytes, 1 tape blocks
x ./data/msviewuserfull_head.tmpl, 305 bytes, 1 tape blocks
x ./data/msviewusers_body.tmpl, 172 bytes, 1 tape blocks
x ./data/msviewusers_foot.tmpl, 10 bytes, 1 tape blocks
x ./data/msviewusers_head.tmpl, 596 bytes, 2 tape blocks
x ./data/MsTtHTML.config, 14 bytes, 1 tape blocks
x ./data/TtDetBody.tmpl, 1039 bytes, 3 tape blocks
x ./data/TtDetBodyMosaic.tmpl, 705 bytes, 2 tape blocks
x ./data/TtDetHeader.tmpl, 336 bytes, 1 tape blocks
x ./data/TtDetHeaderMosaic.tmpl, 307 bytes, 1 tape blocks
x ./data/TtErrorPage.tmpl, 500 bytes, 1 tape blocks
x ./data/TtFooter.tmpl, 379 bytes, 1 tape blocks
x ./data/TtGuestWarning.tmpl, 635 bytes, 2 tape blocks
x ./data/TtListBody.tmpl, 209 bytes, 1 tape blocks
x ./data/TtListBodyMosaic.tmpl, 255 bytes, 1 tape blocks
x ./data/TtListHeader.tmpl, 736 bytes, 2 tape blocks
x ./data/TtListHeaderMosaic.tmpl, 572 bytes, 2 tape blocks
x ./data/TtMenuBody.tmpl, 1312 bytes, 3 tape blocks
x ./data/TtNoTroubleTick.tmpl, 122 bytes, 1 tape blocks
x ./data/TtSecViolation.tmpl, 662 bytes, 2 tape blocks
x ./data/TtSubmitPage.tmpl, 1963 bytes, 4 tape blocks

x ./data/TtSubmitPageMosaic.tmpl, 1639 bytes, 4 tape blocks
x ./data/TtSubmitSuccess.tmpl, 696 bytes, 2 tape blocks
x ./data/MsAgSubagent.keytab, 56 bytes, 1 tape blocks
x ./data/discover/app.tmpl, 117 bytes, 1 tape blocks
x ./data/discover/apps.ini, 27 bytes, 1 tape blocks
x ./data/discover/data_dictionary.app, 191 bytes, 1 tape blocks
x ./data/discover/data_dictionary.prog, 291 bytes, 1 tape blocks
x ./data/discover/data_server.app, 184 bytes, 1 tape blocks
x ./data/discover/data_server.prog, 288 bytes, 1 tape blocks
x ./data/discover/production_planning.app, 193 bytes, 1 tape blocks
x ./data/discover/production_planning.prog, 305 bytes, 1 tape blocks
x ./data/discover/prog.tmpl, 149 bytes, 1 tape blocks
x ./data/discover/progs.ini, 41 bytes, 1 tape blocks
x ./data/discover/resource_management.app, 204 bytes, 1 tape blocks
x ./data/discover/resource_management.prog, 323 bytes, 1 tape blocks
x ./data/discover/user_comments.app, 190 bytes, 1 tape blocks
x ./data/discover/user_profile.app, 188 bytes, 1 tape blocks
x ./data/discover/user_profile_server.prog, 249 bytes, 1 tape blocks
x ./data/discover/user_comments_server.prog, 252 bytes, 1 tape blocks
x ./data/EcCsSurveyMgrServer.cfg, 237 bytes, 1 tape blocks
x ./data/EcCsSurveyMgrServer.cfg.dv, 237 bytes, 1 tape blocks
x ./data/EcCsSurveyMgrServer.cfg.it, 233 bytes, 1 tape blocks
x ./data/EcCsSurveyMgrServer.cfg.op, 234 bytes, 1 tape blocks
x ./cgi-bin/MSS/Tt/bin/hp/MsTtHTMLItems symbolic link to
../../../../bin/hp/MsTtHTMLItems
x ./cgi-bin/MSS/Tt/bin/hp/MsTtHTMLMenu symbolic link to
../../../../bin/hp/MsTtHTMLMenu
x ./cgi-bin/MSS/Tt/data symbolic link to ../../..../data
x ./cgi-bin/MSS/Ac/bin/hp/MsAcCreateAccount symbolic link to
../../../../bin/hp/MsAcCreateAccount
x ./cgi-bin/MSS/Ac/bin/hp/MsAcDeleteRequest symbolic link to
../../../../bin/hp/MsAcDeleteRequest
x ./cgi-bin/MSS/Ac/bin/hp/MsAcDeleteUser symbolic link to
../../../../bin/hp/MsAcDeleteUser
x ./cgi-bin/MSS/Ac/bin/hp/MsAcDeleteUser_c symbolic link to
../../../../bin/hp/MsAcDeleteUser_c
x ./cgi-bin/MSS/Ac/bin/hp/MsAcLogin symbolic link to ../../..../..../bin/hp/MsAcLogin
x ./cgi-bin/MSS/Ac/bin/hp/MsAcProcessRequest_c symbolic link to
../../../../bin/hp/MsAcProcessRequest_c
x ./cgi-bin/MSS/Ac/bin/hp/MsAcQuery symbolic link to ../../..../..../bin/hp/MsAcQuery
x ./cgi-bin/MSS/Ac/bin/hp/MsAcUpdateUser symbolic link to
../../../../bin/hp/MsAcUpdateUser
x ./cgi-bin/MSS/Ac/bin/hp/MsAcUpdateUser_c symbolic link to
../../../../bin/hp/MsAcUpdateUser_c
x ./cgi-bin/MSS/Ac/bin/hp/MsAcViewRequestFull symbolic link to
../../../../bin/hp/MsAcViewRequestFull
x ./cgi-bin/MSS/Ac/bin/hp/MsAcViewRequests symbolic link to
../../../../bin/hp/MsAcViewRequests

x ./cgi-bin/MSS/Ac/bin/hp/MsAcViewUserFull symbolic link to
../../../../../bin/hp/MsAcViewUserFull
x ./cgi-bin/MSS/Ac/bin/hp/MsAcViewUsers symbolic link to
../../../../../bin/hp/MsAcViewUsers
x ./cgi-bin/MSS/Ac/data symbolic link to ../../data

5. Discrepancy Status

The following Non-Conformance Reports (NCRs) were identified during the I&T of EP6 that are open which the EP6 Team and/or the ECS CCB thinks are essential to demonstrate the functionality of the EP6 with respect to the purpose of gathering users evaluations of the prototypes and increments within EP6. Severity 3 NCRs which may impair non critical functionality and severity 5 NCRs (also called documentation NCRs) which represent minor bugs or limitations that are documented are placed on the EDHS web page at http://edhs1.gsfc.nasa.gov:8001/wais/data/charts/eval_pkgcat.html.

5.1 Open NCRs:

No open severity 1 or 2 NCRs are present at the time of this writing.

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Abbreviations and Acronyms

AFS	Andrew File System
API	Application programming interface
ASF	Alaska SAR Facility (SAR: Synthetic Aperture Radar)
CM	Configuration Management
CORBA	Common Object Request Broker Architecture
COTS	Commercial Off-The-Shelf
CSMS	Communications and Systems Management Segment
CSR	Consent to Ship Review
CSS	Communications Subsystem (CSMS)
DAAC	Distributed Active Archive Center
DB	Data Base
DBMS	Database Management System
DCE	Distributed computing environment (OSF)
DD	Data Dictionary
DDTS	Distributed Defect Tracking System
DFS	Distributed File System
DME	Distributed Management Environment (OSF)
DNS	DCE Directory Service
DTR	Development Team Representative
ECS	EOSDIS Core System
EDC	EROS Data Center (EROS: Earth Resources Observations System)
EDF	ECS development facility
EDS	Electronic Data Systems
EOS	Earth Observing System
EP	Evaluation Package
EPRR	EP Readiness Review
EPS	Evaluator Preference Survey
ERF	Evaluation Results Forum

ESN	EOSDIS Science Network
ETM	EOSDIS Technical Manager
FOS	Flight Operations Segment (ECS)
ftp	file transfer protocol
GSFC	Goddard Space Flight Center
GUI	graphical user interface
HDF	Hierarchical Data Format
HMI	Human-Machine Interface
HTML	HyperText Markup Language
HTSC	Hughes Technical Services Company
I&T	Integration and Test
I/Fs	Interfaces
IATO	Independent Acceptance
IDL	Interface Definition Language (OMG's CORBA Implementation)
IDL	Interface Definition Language (OSF DCE Implementation)
IET	Interactive Evaluation Tool
IP	Internet Protocol
ISO	International Standards Organization
ISS	Internetworking Subsystem (CSMS)
JPL	Jet Propulsion Laboratory
LAN	local area network
LaRC	Langley Research Center
LIM	Local Information Manager
M&O	Maintenance and Operations
MD	Master Directory
MIB	management information base
MIT	Massachusetts Institute of Technology
MSFC	Marshall Space Flight Center
MSS	Systems Management Subsystem (CSMS)
MUI	Management User Interface
NCR	Non-Conformance Report

NSI	NASA Science Internet
NSIDC	National Snow and Ice Data Center
OMG	Object Management Group
OODBMS	Object Oriented Database Management System
ORB	Object Request Broker
ORDBMS	Object Relational Database Management System
OS	Operating System
OSF	Open Software Foundation
OSI	Open Systems Interconnect
PGS	Product Generation Subsystem (obsolete ECS element name)
PI	Project Instruction
PSC	Pittsburgh Supercomputing Center
PO	Purchase Order
QA	Quality Assurance
RDBMS	Relational Database Management System
RPC	Remote Procedure Call
RTM	Requirements and Traceability Management
SDPS	Science Data Processing Segment
SEPG	Software Engineering Process Group
SGI	Silicon Graphics
SI&P	System Integration & Planning
SNMP	simple network management protocol
SOW	Statement of Work
T1	a common-carrier data pipe providing 1.544 Mbps of capacity
TBR	To Be Reviewed
TCP/IP	Transmission Control Protocol/Internet Protocol
TRMM	Tropical Rainfall Measuring Mission (joint US-Japan)
TRR	Test Readiness Review
UT	Usability Testing
V0	Version 0 (of EOSDIS)
WAN	wide area network

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Appendix A. Installation Instructions

A.1 EP6 Client Installation on DAAC / Science Advisor Workstations

Instructions to install EP6 client from the ECS configured area to the DAAC and Tirekicker workstations

1. Login to the target machine by typing:

rlogin <full machine name and domain or IP address>
(example: epserver.gsfc.nasa.gov or epserver.192.150.28.17)

2. Verify that the operating system on the client machine is the correct version by typing in:
uname -a (HP clients should be HP UX 9.05, SUN clients should be SunOS 5.4 / Solaris 2.4)

3. Create/Verify the ECS client home directory by typing in:

mkdir ...

(example: On epserver (HP) type: mkdir /epserver1/ep6/client
On edatasrv (SUN) type: mkdir /data/ep6/client)

Note: All files will be untarred from the client's home directory

4. From the ECS client home directory download the tar files from the ECS CM directory. The following table indicates the tar files associated for each platform (HP and SUN).

Platform	tar file
HP	EP6_Client_HP_120195.tar
SUN	EP6_Client_SUN5_120195.tar

Down loading the files is done through ftp by typing in:

- a. **ftp sim.hitc.com** (You can use other machines like fire, etc)
- b. **bin** (set the transfer mode to binary)
- c. **cd /home/release/EP6-TAR** (go to the CM directory)
- d. **get EP6_CLIENT_HP_120195.tar** (HP) or **get EP6_CLIENT_SUN5_120195.tar** (SUN)
- e. **bye** (to quit ftp)

7. Verify the contents of the client home directory by typing in:
ls (the tar file should be present)

8. Untar the file by typing:

**tar xvf EP6_CLIENT_HP_120195.tar or tar -xvf
EP6_CLIENT_SUN5_120195.tar**

9. Uncompress the untarred files by typing in:

```
foreach file (*.Z)
uncompress $file
```

10. Remove the original tar file by typing in:
rm EP6_CLIENT_HP_120195.tar of EP6_CLIENT_SUN5_120195

11. Untar the tarred file by typing in:

```
foreach file (*.tar)
tar -xvf $file
rm -f $file
```

12. For HP clients only, strip the following binaries by typing in:
strip EOSView ecs esst upt

A.2 Application Server Installation

To install the EP6 Application Server (epserver) from a disk-based 'tar' file:

1. Login into **epserver** with **sudo root** privileges (Note: you must login as **sudo root** to properly startup the servers).

2. Verify platform operating system versions (HP: HP UX 9.05) by typing the following command:

```
uname -a
```

3. Verify all server processes are not running:

- a. **cd /etc** (change directory)
- b. **> sudo psep6** (script to verify processes)

4. Kill processes still running: **(Do not use the -9 option)**

```
kill <processID1 processID2 ...>
```

List of Processes to kill:

1. **./MsAcProfileMgrServer**
2. **./MsAgSubagent**
3. **./EcCsSurveyMgrServer/data/EcCsSurveyMgrServer.cfg.op**
4. **./ddsSrv**
5. **./Program.o CONFIG NOV**
6. **./httpd-root**

5. Repeat step 3 (until all processes are not running)

6. Cleanup DCE entries via cdsbrowser:

- a. **> cdsbrowser &**

- b. Press: **Security** and Select: **Dce login**
 - c. Login dce name and password
 - d. Double-click Directory **/..:/ep6**
 - e. Select: server entries
 - f. Press: **Action** and Select: **Delete Entry** (delete all server entries)
 - g. Repeat steps e and f for the following 4 entries:
 - 1. **./MsAcProfileMgrServer**
 - 2. **./MsAgSubagent**
 - 3. **./EcCsSurveyMgrServer/data/EcCsSurveyMgrServer.cfg.op**
 - 4. **./ddsSrv**
 - h. Press: **Tree** and Select: **Update** (verify entries deleted)
 - i. Press: **File** and Select: **Exit**
7. Verify directory structure created by finding the '**/epserver1/ep6/appserver**' directory on the server:
- ```
cd /epserver1/ep6/appserver
```
8. Verify privileges for "untarring" file by typing the following command:  
**ls -ald** (type this command while you are in the EP6 directory)  
 (the EP6 directory should be owned by the root for writing privileges)
9. Copy tarfiles onto target machine in the '**/epserver1/ep6/appserver/tar**' directory  
 (this will be done by ftp of the tar file to the target directory) as follows:
- ```
ftp <any EDF network workstation> ( e.g. sim.hitc.com )
cd /home/release/EP6-TAR
pwd (to verify path)
ls -l (to list the tar files and their compressed sizes)
get /home/release/EP6-TAR/EP6_SERVER_HP_120195.tar
  (you can monitor the progress of the file transfer by typing ls -l in the other window to the target machine at /epserver1/ep6/appserver/tar)
quit (at ftp prompt when both file transfers successfully completed)
```
10. Extract the contents of all these files by typing the command: (HP Only command)
uncompressdir (To be done from the **/epserver1/ep6/appserver/tar** directory)
11. Untar each tarfile within the following directory.
- ```
cd /epserver1/ep6/appserver
tar -xvfh tar/EP6_SERVER_HP_120195.tar
```
12. Verify that the following parent directories exist by typing **ls -al**:

```
/bin /hp
/data
/cgi-bin
/MSS
/IOS
/CLS
/html
```

/images

13. Run: /epserver1/ep6/appserver/**setecs.op** (Sets OPs environment)
14. cd **/etc** (change directory)
15. Run: **sudo rc.ep6** (auto-starts required servers)
16. Verify all server processes are running:
  - a. cd **/etc** ( change directory)
  - b. > **sudo psep6** ( script to verify processes)

#### List of Processes:

1. **./MsAcProfileMgrServer**
2. **./MsAgSubagent**
3. **./EcCsSurveyMgrServer ..../data/EcCsSurveyMgrServer.cfg.op**
4. **./ddsSrv**
5. **./Program.o CONFIG NOV**
6. **./httpd-root**

## A.3 Data Server Installation

To install the EP6 Dataserver Server (epdatasrvr) from a disk-based 'tar' file:

1. Login into epdatasrvr.
2. Verify platform operating system versions (Sun Solaris2.4) by typing the following command:  
**uname -a**
3. Verify DCE Client installed by logging into DCE. Type:  
**dce\_login {your username}**  
NOTE: If you can't log into DCE you will NOT be able to properly start up the servers. Abort  
these procedures and notify Mike Roach or Reginald McAllister.
4. Verify directory structure created by finding the '/data/eps/ep6' directory on the server:  
**cd /data/eps/ep6/DSS/sdsvr/bin/sun5**
5. Verify privileges for "untarring" file by typing the following command:  
**ls -ald** (type this command while you are in the EP6 directory)
6. Copy tarfiles onto target machine in the '**/epserver1/ep6/appserver/tar**' directory  
(this will be done by ftp of the tar file to the target directory) as follows:

```
ftp <any EDF network workstation> (e.g. sim.hitc.com)
cd /home/release/EP6-TAR
pwd (to verify path)
ls -l (to list the tar files and their compressed sizes)
get /home/release/EP6-TAR/EP6_SERVER_SUN5_120195.tar
(you can monitor the progress of the file transfer by typing ls -l in the other window to the target machine at /epserver1/ep6/DSS/sdsvr/tar)
quit (at ftp prompt when both file transfers successfully completed)
```

7. Untar the tarfile within the following tar directory.

```
cd /epserver1/ep6/DSS/sdsvr/tar
tar -xvf EP6_SERVER_SUN5_120195.tar
```

8. Extract the contents of all these files from the **/epserver1/ep6/DSS/sdsvr/tar** directory:

```
uncompress EP6_SERVER_SUN5_DSS_120195.tar.Z
```

9. Untar the tarfile within the following sdsvr directory:

```
cd /epserver1/ep6/DSS/sdsvr
tar -xvfh EP6_SERVER_SUN5_120195.tar
```

10. Verify that the following directories exist by typing **ls -al**:

```
/bin/sun5
```

11. Verify environment variables properly set by typing the following commands:

```
echo SYBASE /vendor/sybase
echo DBUSERNAME ep6
echo DBPASSWD prototype
echo SYBINTERFACES $SYBASE/interfaces
echo DSQUERY SYBASE
```

12. At this point the EP6 dataserver is ready for startup. To start the EP6 server type:

```
dce_login {username}
cd /data/eps/ep6/DSS/sdsvr/bin/sun5/gosdsrv.csh
```

13. Logout out of DCE by typing:

```
kdestroy (to end the DCE login)
klist (view unavailability of DCE tickets)
```