

Appendix B. EDF Verification Traceability Matrices

The following matrix provides a mapping of Ir1 Level 4 requirements to test cases, with EDF verification status.

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-CSS-00040	inspection	The CSS services shall be compatible with POSIX-compliant UNIX platforms.	BC002.002	Verified
C-CSS-00500	test/inspection	The CSS client services software shall be made available in the form of a CSS toolkit to the developers.	TC003.001 TC009.004 TC011.001 TC011.002 TC013.003	Verified Verified Verified Verified Verified
C-CSS-21000	test	The CSS Security service shall provide an API to Verified the identity of users.	BS002.001 BS002.002 TC003.005 TS004.001 TS004.002 TS004.003 TS004.004	Verified Verified Verified Verified Verified Verified Verified
C-CSS-21020	demo	The CSS Security service shall provide the capability to create/modify/delete user accounts and privileges in the security registry.	TC003.005	Verified
C-CSS-21030	demo	The CSS Security service shall provide the capability to define/modify/delete group information in the security registry.	TC003.005	Verified
C-CSS-21100	test	The CSS Security service shall provide an API to challenge the client/server to authenticate itself at the following three levels. a. connect level b. request level c. packet level	TC003.005	Verified
C-CSS-28000	test	CSS Event Logger Service shall provide capability to record event and history data to a application specific log file.	TC013.003	Verified
C-CSS-28010	test	CSS Event Logger Service shall accept and record event time (when the event was generated, obtained from the Time Service) information.	TC013.003	Verified
C-CSS-28020	test	CSS Event Logger Service shall accept and record the application information (name and version of the calling application).	TC013.003	Verified
C-CSS-28030	test	CSS Event Logger Service shall accept and record event message information.	TC013.003	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-CSS-28040	test	CSS Event Logger Service shall accept and record the event type information. (Type of the event: fault, performance)	TC013.003	Verified
C-CSS-28060	demo	CSS Event Logger Service shall inform M&O staff if the event disposition narrative by the application demands so.	TC013.003 TC013.004	Verified
C-CSS-28070	test	CSS Event Logger Service shall record the operator/principle information that is relevant for the generated event.	TC013.003	Verified
C-CSS-28080	test	CSS Event Logger Service shall record the environment information for the generated event.	TC013.003	Verified
C-CSS-60500	test	The CSS File Access Service shall provide functionality for interactive and non-interactive transfer of files (send and receive) between two host systems.	TC009.001 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-60510	demo	The CSS File Access Service shall be capable of transferring ASCII and binary files.	TC009.001 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-60520	demo	The CSS File Access Service shall support the File Transfer Protocol (FTP).	TC009.001 BS002.001 BS002.002 BS002.005 TS005.001 TS005.002 TS005.003 TS005.004 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-CSS-60600	demo	The CSS File Access Service shall provide connection oriented operation for file transfers.	TC009.001 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-60610	demo	The CSS File Access Service shall allow selection of the file type (ASCII or binary).	TC009.001 TC009.004 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-60620	demo	The CSS File Access Service shall support proxy mode of operation which enables transfer of files between two remote hosts.	TC009.001 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.07	Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-60630	demo	The CSS File Access Service shall provide capability to list remote files	TC009.001 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-60640	demo	The CSS File Access Service shall support wildcards in files on the remote host.	TC009.001 B01.07.01 B01.07.02 T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-CSS-60650	demo	The CSS File Access service shall support anonymous FTP which allows read access to all users.	TC009.003	Verified
C-CSS-61040	demo	The CSS Electronic Mail Service shall provide translation between SMTP and X.400 protocol.	TC006.001 TC006.002 TC010.001 TC010.002 TC010.003 B01.05.01 B01.05.02 T01-02.05.01 T01-02.05.02 T01-02.05.04 T01-02.05.05	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-61050	demo	The CSS Electronic Mail Service shall be accessible in interactive mode.	TC006.001 TC006.002 TC010.001 TC010.002 TC010.003 B01.05.01 B01.05.02 T01-02.05.01 T01-02.05.02 T01-02.05.04 T01-02.05.05	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-61060	test	The CSS Electronic Mail Service shall be accessible in non-interactive mode via API.	TC006.001 TC006.002 TC010.001 TC010.002 TC010.003 B01.05.01 B01.05.02 T01-02.05.01 T01-02.05.02 T01-02.05.04 T01-02.05.05	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
C-CSS-62000	demo	The CSS Bulletin Board Service shall be based on the following standards: a. TCP/IP b. NNTP c. SMTP d. Usenet message standard (RFC 850)	TC017.001	Verified
C-CSS-62010	demo	The CSS Bulletin Board Service shall support multiple (configurable) bulletin boards (newsgroups).	BC012.004	Verified
C-CSS-62030	demo	The CSS Bulletin Board Service shall provide concurrent access to multiple users (registered or non-registered).	BC012.004	Verified
C-CSS-62040	demo	The CSS Bulletin Board Service shall allow multiple messages for each bulletin board.	BC012.004	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-CSS-62100	demo	The CSS Bulletin Board Service shall provide capabilities to authorized users (M&O staff) for: a. creating new bulletin board b. deleting existing bulletin board c. deleting message(s) from a bulletin board d. backing up bulletin boards e. forcing users off a bulletin board or the entire bulletin board service for backup f. collecting access history and/or statistical information.	BC012.004	Verified
C-CSS-62120	demo	The CSS Bulletin Board Service shall provide the capability to respond to a posted message on a bulletin board by sending the response message to: a. the bulletin board (follow up) b. author of the original message (respond to author) c. named destinations (forward).	BC012.004	Verified
C-CSS-62300	demo	The CSS Bulletin Board Service shall be available to the users in interactive mode.	BC012.004	Verified
C-CSS-62305	demo	The CSS Bulletin Board Service shall allow user to subscribe to bulletin boards.	BC012.004	Verified
C-CSS-62310	demo	The CSS Bulletin Board Service shall allow user to unsubscribe bulletin boards.	BC012.004	Verified
C-CSS-62320	demo	The CSS Bulletin Board Service shall allow user to select a subscribed bulletin board for viewing summary of all messages in it.	BC012.004	Verified
C-CSS-62330	demo	The CSS Bulletin Board Service shall provide the capability to respond to a message by sending the response to the bulletin board and/or to the author of the message and/or any other operator specified destination.	BC012.004	Verified
C-CSS-62340	demo	The CSS Bulletin Board Service shall provide capability: a. to search for a string in message headers or in message text. b. to search by author c. to search by subject.	BC012.004	Verified
C-CSS-62350	demo	The CSS Bulletin Board Service shall provide a catch-up feature which excludes user specified messages from appearing in the bulletin board when it is viewed next time.	BC012.004	Verified
C-CSS-62360	demo	The CSS Bulletin Board Service shall allow the users to post messages to bulletin board(s).	BC012.004	Verified
C-CSS-62380	demo	The CSS Bulletin Board Service shall allow users to copy/save a message to their local system.	BC012.004	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-CSS-63000	demo	The CSS Virtual Terminal shall provide a virtual device which hides the physical terminal characteristics and handling conventions from both the operator and the server host.	TC003.001	Verified
C-CSS-63010	demo	The CSS Virtual Terminal shall provide means to enhance characteristics of the basic virtual device by mutual agreement between the two communicating parties (option negotiations).	TC003.001	Verified
C-CSS-63020	demo	The CSS Virtual Terminal shall be based on industry standard and accepted protocols (telnet and ktelnet).	TC003.001	Verified
C-CSS-63040	demo	The CSS Virtual Terminal shall provide guest access to non-registered users to log into the ECS guest server.	TC003.001	Verified
C-HRD-11115	inspection	The Enterprise Monitoring Server processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	TC017.001	Verified
C-HRD-11300	inspection	The Enterprise Monitoring Server data storage shall be compatible with POSIX compliant operating systems from several vendors.	TC017.001	Verified
C-HRD-12115	inspection	The Local Management Server processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	TC017.001	Verified
C-HRD-12300	inspection	The Local Management Server data storage shall be compatible with POSIX compliant operating systems from several vendors.	TC017.001	Verified
C-HRD-18000	inspection	The MSS-MHCI Enterprise Monitoring Server shall maintain one backup of all software and key data items in a separate physical location.	TC017.001	Verified
C-HRD-18005	inspection	The MSS-MHCI Local Management Server shall maintain one backup of all software and key data items in a separate physical location.	TC017.001	Verified
C-HRD-21115	inspection	The Enterprise Communications Server processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	TC017.001	Verified
C-HRD-21300	inspection	The Enterprise Communications Server data storage shall be compatible with POSIX compliant operating systems from several vendors.	TC017.001	Verified
C-HRD-23115	inspection	The Bulletin Board Server processor shall have the capability to support a POSIX compliant IEEE 1003.1 operating system (UNIX).	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-HRD-23300	inspection	The Bulletin Board Server data storage shall be compatible with POSIX compliant operating systems from several vendors.	TC017.001	Verified
C-HRD-28000	inspection	The CSS-DCHCI Enterprise Communications Server shall maintain one backup of all software and key data items in a separate physical location.	TC017.001	Verified
C-HRD-32000	inspection	The ISS shall use physical devices and Medium Access Control protocols compatible with the following standards: a. IEEE 802.2 (Logical Link Control) b. IEEE 802.3 (MAC for Ethernet) c. IEEE 802.6 (MAC for SMDS) d. ANSI X3T9.5 (MAC for FDDI).	TC017.001	Verified
C-HRD-32010	demo/inspection	The ISS physical components, and services shall have the capability to be monitored via SNMP agents.	TC017.001	Verified
C-HRD-41000	inspection	The EDF in the IR-1 timeframe shall provide a Enterprise Monitoring Server configured with: a. Two Fixed Disks b. One Tape Drive c. One CD-ROM Drive d. Storage cross-strapped with Enterprise Communications Server	TC017.001	Verified A & C B & D move to Rel. A
C-HRD-41005	inspection	The EDF in the IR-1 timeframe shall provide a Enterprise Communications Server configured with: a. Two Fixed Disks b. One Tape Drive c. One CD-ROM Drive d. Storage cross-strapped with Enterprise Monitoring Server	TC017.001	Verified A & C B & D move to Rel. A
C-HRD-41010	inspection	The EDF in the IR-1 timeframe shall provide a Bulletin Board Server configured with: a. One Tape Drive b. One CD-ROM Drive	TC017.001	Verified A . B move to Rel. A
C-HRD-41015	inspection	The EDF in the IR-1 timeframe shall provide two (2) Data Storage Unit supporting RAID level 5, one for the shared Enterprise Monitoring/Enterprise Communications, and the other for the Bulletin Board Server.	TC017.001	Rel A. req. per EDS
C-HRD-41020	inspection	The EDF in the IR-1 timeframe shall provide four (4) Management Workstations, which can perform any EMC function.	TC017.001	Verified
C-HRD-41025	inspection	The EDF in the IR-1 timeframe shall provide 1 system printer.	TC017.001	Verified
C-HRD-41500	inspection	The EDF in the IR-1 timeframe infrastructure shall provide one EDF LAN.	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-HRD-42000	inspection	The GSFC LSM in the IR-1 timeframe shall provide a Local Management Server configured with: a. Two Fixed Disks b. One Tape Drive c. One CD-ROM Drive	TC017.001	Tape drive not until Rel A.
C-HRD-44000	inspection	The MSFC LSM in the IR-1 timeframe shall provide a Local Management Server configured with: a. Two Fixed Disks b. One Tape Drive c. One CD-ROM Drive	TC017.001	Tape drive not until Rel A
C-HRD-45000	inspection	The LaRC LSM in the IR-1 timeframe shall provide a Local Management Server configured with: a. Two Fixed Disks b. One Tape Drive c. One CD-ROM Drive	TC017.001	Tape drive not until Rel A
C-HRD-46000	inspection	The EDC LSM in the IR-1 timeframe shall provide a Local Management Server configured with: a. Two Fixed Disks b. One Tape Drive c. One CD-ROM Drive	TC017.001	Tape drive not until Rel A
C-ISS-01000	demo	The ISS shall interoperate with the V0 Wide Area Network to provide IR-1 connectivity as specified in DID 220, "Communications Requirements for the ECS project".	BC002.002	Verified
C-ISS-01010	test	The ISS shall provide an interface between the V0 WAN and the MSFC, LaRC and GSFC DAACs for the purpose of IR-1 interface testing.	TC010.003	Verified
C-ISS-01020	demo	The ISS shall interface with NSI or an alternate Internet provider at GSFC, MSFC, LaRC and EDC to provide DAAC access to science users in accordance with the following documents: a. DID 220, "Communications Requirements for the ECS Project" 194-220-SE3-001 b. Interface Requirements Document between EOSDIS Core System (ECS) and the NASA Science Internet (NSI), 194-219-SE1-001	TS002.002 TS003.008	Verified Verified
C-ISS-01030	test	The ISS shall provide for connectivity between the MSFC DAAC and NOLAN for the ingest of L0 LIS data.	BS002.001 TS005.001 TS005.003	Verified Verified Verified
C-ISS-01040	test	The ISS shall provide for connectivity between the LaRC DAAC and NOLAN for the ingest of L0 CERES data.	BS002.001 TS005.001 TS005.003	Verified Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-ISS-01080	test	The ISS shall reuse the V0 WAN in order to provide connectivity between V0 network nodes and V1 network nodes and to provide interoperability between the systems.	TC0101.001	Verified
C-ISS-01100	test	The ISS shall provide for connectivity with TSDIS in order to transfer TRMM data to the GSFC DAAC.	BS002.002 TS005.002 TS005.004	Verified Verified Verified
C-ISS-02000	demo	The ISS shall provide connection oriented transport services as specified by the TCP protocol referenced in RFC 793.	BC002.002	Verified
C-ISS-02010	Inspection	The ISS shall provide the capability to filter packets based on the port/socket of the transport layer protocol.	BC002.002 BC002.003	Verified Verified
C-ISS-02020	demo/inspection	The ISS shall provide connectionless transport services as specified by the UDP protocol referenced in RFC 768.	BC002.002	Verified
C-ISS-02030	demo/inspection	The ISS shall provide network layer services as specified by the Internet Protocol (IP) suite referenced in RFC 791.	BC002.002	Verified
C-ISS-02050	demo/inspection	The ISS shall provide ICMP network layer service as specified by RFC 792.	BC002.002	Verified
C-ISS-02060	demo/inspection	The ISS shall provide network layer services in compliance with one or more of the following protocols as appropriate to the type of the physical network supported: a. IP over Ethernet as specified in RFCs 894, 895, 826 (ARP), 903 (RARP) b. IP over FDDI as specified in RFC 1188, 1390 (ARP, RARP) c. IP over HiPPI as specified in RFC 1374 (includes ARP, RARP) d. IP over SMDS as specified in RFC 1209 (includes ARP, RARP)	BC002.002	Verified
C-ISS-02520	demo/inspection	The ISS shall provide services based on the Open Shortest Path First (OSPF) protocol referenced in RFC 1583 to route traffic between the source and destination nodes, maintain route databases, and exchange routing information between networks.	BC002.002	Verified
C-ISS-02530	demo/inspection	The ISS shall provide services based on the Routing Information Protocol (RIP) referenced in RFC 1058 to route network traffic between the source and destination nodes.	BC002.002	Verified
C-MSS-10060	test	The MSS shall interface with the Tropical Rainfall Measuring Mission (TRMM) to exchange data identified in Table 5.1-1 as specified in ECS/TRMM IRD, 194-219-SE1-018.		Move to Rel A

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-10080	test	The MSS shall interface with the NASA Science Internet (NSI) to exchange data identified in Table 5.1-1 as specified in ECS/NSI IRD, 194-219-SE1-001.		Move to Rel A
C-MSS-10410	inspection	The MSS shall interface with the CSS subsystems to exchange the data items in Table 5.1-5 as specified in the ECS internal ICDs, 313-DV3-003.	TC017.001	Verified
C-MSS-12005	demo	The MSS Management User Interface (MUI) Service shall be compatible with the ECS management framework.	TC014.004	Verified
C-MSS-12010	demo	The MSS Management User Interface (MUI) Service shall provide a graphical user interface that is OSF/MOTIF compliant	TC014.004	Verified
C-MSS-12020	demo	The MSS MUI Service shall have the capability to respond to keyboard and mouse input devices	TC014.004	Verified
C-MSS-12030	demo	The MSS MUI Service shall provide a capability for the M&O Staff to add/delete a symbol and to modify a symbol's shape, color and position	TC014.004	Verified
C-MSS-12040	demo	The MSS MUI Service shall provide a capability for an application to add/delete a symbol and to modify a symbol's shape, color and position	TC014.004	Verified
C-MSS-12050	demo	The MSS MUI Service shall provide a capability for the M&O Staff to add, delete, and modify text strings	TC014.004	Verified
C-MSS-12060	demo	The MSS MUI Service shall provide a capability for an application to add, delete, and modify text strings	TC014.004	Verified
C-MSS-12070	demo	The MSS MUI Service shall have the capability to provide options and methods to the M&O Staff for screen configuration changes (color, symbol placement, etc) and for retaining the changes from session to session	TC014.004	Verified
C-MSS-12080	demo	The MSS MUI Service shall provide a capability for an applications to alert the M&O Staff	BC002.004 TC014.002	Verified Verified
C-MSS-12090	demo	The MSS MUI Service shall provide a capability for an applications to establish a dialog session with the M&O Staff	TC014.002	Verified
C-MSS-12100	demo	The MSS MUI Service shall provide a capability for the M&O Staff to load and unload vendor or ECS defined MIB.	TC014.004	Verified
C-MSS-12110	demo	The MSS MUI Service shall provide a capability for an applications to load and unload vendor or ECS defined MIB.	TC014.004	Verified
C-MSS-12120	demo	The MSS MUI Service shall provide a capability for the operator to browse MIB values.	TC014.004 TC014.006	Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-12130	demo	The MSS MUI Service shall provide the capability for the M&O Staff to register and unregister managed objects.	TC014.004	Verified
C-MSS-12140	demo	The MSS MUI Service shall provide the capability for an application to register and unregister managed objects.	TC014.004	Verified
C-MSS-12180	demo	The MSS MUI Service shall provide the capability for an application to display on-line help windows	TC014.004	Verified
C-MSS-14010	demo	The MSS Maps/Collection Service shall retain the status of managed objects and their relationship to symbols that comprise a graphical representation of the physical network topology.	TC014.001	Verified
C-MSS-14020	demo	The MSS Map/Collection Service shall provide a capability to define maps and objects.	TC014.001	Verified
C-MSS-14030	demo	The MSS Map/Collection Service shall provide a capability to define a hierarchical relationship between maps and sub-maps (i.e., a graphical hierarchical tree)	TC014.001	Verified
C-MSS-14040	demo	The MSS Map/Collection Service shall propagate events associated with objects up the hierarchical tree	TC014.001	Verified
C-MSS-16005	demo/inspection	The ECS management protocol shall be the SNMP standard as specified in RFC 1157.	TC014.001	Verified
C-MSS-16020	demo	The MSS Monitor/Control Service shall communicate via ECS management protocol with the MSS Management Agent Service to request management data on a managed object.	TC014.001 TC014.002	Verified Verified
C-MSS-16030	demo	The MSS Monitor/Control Service shall be able to communicate via ECS management protocol with the MSS Management Agent Service to send ECS management set messages to configure and control the processing performed by the ECS management agent.	TC014.006	Verified
C-MSS-16040	demo	The MSS Monitor/Control Service shall communicate via ECS management protocol with the MSS Management Agent Service to receive ECS management traps/events.	BC002.004 TC014.006	Verified Verified
C-MSS-16050	demo	The MSS Monitor/Control Service shall allow customized M&O staff-event notifications and automatic actions.	TC014.002	Verified
C-MSS-16060	demo	The MSS Monitor/Control Service shall allow the capability to set thresholds on managed resources that are monitored	TC013.005	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-16070	demo	The MSS Monitor/Control Service shall automatically report when a threshold has been exceeded by generating a ECS management event	BC002.004 TC013.005	Verified Verified
C-MSS-16100	demo	The MSS Monitor/Control Service shall perform the following protocol test on managed network nodes: a. IP test b. TCP test c. SNMP test d. UDP test e. ICMP test	TC014.002	Verified
C-MSS-20010	demo	The MSS Discovery Service shall discover (via network protocol) new instances of managed objects.	TC014.002	Verified
C-MSS-20020	demo	The MSS Discovery Service shall detect missing occurrences of managed objects.	TC014.002	Verified
C-MSS-20030	demo	The MSS Discovery Service shall report missing occurrences of managed objects.	TC014.002	Verified
C-MSS-20040	demo	The MSS Discovery Service shall update the object database after the Discovery Service receives a request to register/unregister a managed object.	TC014.001 TC014.005	Verified Verified
C-MSS-36010	demo	The MSS Management Agent Service shall retrieve data from ECS managed objects in test or operational mode.	TC014.001 TC014.002 TC014.006	Verified Verified Verified
C-MSS-36020	demo	The MSS Management Agent Service shall communicate via ECS management protocol with the MSS Monitor/Control Service to respond to requests for managed object MIB attributes	TC014.006	Verified
C-MSS-36040	demo	The MSS Management Agent Service shall communicate via ECS management protocol with the MSS Monitor/Control Service to send ECS management traps/events to the Monitor/Control Service.	TC014.006	Verified
C-MSS-36050	demo	The MSS Management Agent Service shall communicate via ECS management protocol with the MSS Monitor/Control Service to receive ECS management set message from the Monitor/Control Service.	TC014.006	Verified
C-MSS-36060	demo	The MSS Management Agent Service shall provide an ECS management agent that is configurable to include: a. Community to respond to and set attributes b. Agent location & contact person c. Traps to send d. Events to log & log file name	TC014.006	Verified
C-MSS-36070	demo	The MSS Management Agent Service shall provide an ECS management agent for network devices	TC014.006	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-40400	demo	The MSS configuration management application service at the sites and the SMC shall maintain software libraries to store files containing versions and platform variants of: a. source code; b. binaries and executables; c. patches; d. calibration coefficients and control data; e. scripts; f. designs and design specifications; g. databases; h. technical documentation (both text and graphics); i. test data; j. test reports; k. interface specifications; l. configuration data. (IR-1)	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05 T03-01.05.06 T03-01.06.01	Verified Verified Verified Verified Verified Verified Verified
C-MSS-40410	demo	The MSS configuration management application service at each DAAC shall maintain user-definable software configuration status information for each algorithm. (IR-1)	T03-01.05.01 T0301.05.02 T0301.05.03 T01-01.05.04 T03-01.05.05	Verified Verified Verified Verified Verified
C-MSS-40420	demo	The MSS configuration management application service at each site shall maintain M&O staff-definable software configuration status information for each version of every software library file.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05	Verified Verified Verified Verified Verified
C-MSS-40470	demo	The MSS configuration management application service shall regulate operations on software library files through use of individual and group permissions.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05 T03-01.05.06 T03-01.06.01	Verified Verified Verified Verified Verified Verified Verified
C-MSS-40480	demo	The MSS configuration management application service shall use a checkout/edit/checkin paradigm to govern changing of software library files.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05 T03-01.05.06 T03-01.06.01	Verified Verified Verified Verified Verified Verified Verified
C-MSS-40490	demo	The MSS configuration management application service shall track each software library file that has been changed as a new version of the original file.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05 T03-01.05.06	Verified Verified Verified Verified Verified Verified
C-MSS-40500	demo	The MSS configuration management application service shall merge versions of software library files and identify version conflicts, if any.	T03-01.05.05	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-40510	demo	The MSS configuration management application service shall maintain records of actual changes made to ECS software library files in implementing system enhancement requests.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05	Verified Verified Verified Verified Verified
C-MSS-40540	demo	The MSS configuration management application service shall perform builds of baseline systems for ECS platforms and audit the builds such that they can be repeated.	T03-01.01.01 T03-01.02.01 T03-01.01.02 T03-01.04.02	Verified Verified Verified Verified
C-MSS-40550	demo	The MSS configuration management application service shall reconstruct previous versions of software library files.	T03-01.05.05	Verified
C-MSS-40560	demo	The MSS configuration management application service shall allow concurrent user access to software library files.	T03-01.05.03 T03-01.05.05	Verified Verified
C-MSS-40570	demo	The MSS configuration management application service shall maintain an audit trail of all changes made to software library files.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05	Verified Verified Verified Verified Verified
C-MSS-40990	demo	The MSS configuration management application service shall log the following information for configuration management events: a. operation type; b. userid of initiator; c. date-time stamp; d. host name. (IR-1, at the sites only)	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05	Verified Verified Verified Verified Verified
C-MSS-40995	demo	The MSS configuration management application service shall generate chronological reports of logged CM events associated with M&O staff-selectable: a. time frames; b. operation types; c. userids; d. hosts.	T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05	Verified Verified Verified Verified Verified
C-MSS-60010	demo	The MSS Fault Management Application Service shall provide the capability to create and display graphical representations of a given network topology consisting of the following: a. routers b. communication lines c. hosts d. peripherals e. applications	TC014.001	Verified
C-MSS-60020	demo	The MSS Fault Management Application Service shall provide the capability to define categories of faults.	TC014.002	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-60080	demo	The MSS Fault Management Application Service shall have the capability to establish, view, modify and delete thresholds on performance metrics it measures.	TC013.005	Verified
C-MSS-60100	demo	The MSS Fault Management Application Service shall have the capability to poll for the detection of fault/performance information.	TC014.002	Verified
C-MSS-60110	demo	The MSS Fault Management Application Service shall be capable of receiving fault notifications.	BC002.004	Verified
C-MSS-60120	demo	The MSS Fault Management Application Service shall have the capability to define the frequency with which polling is done for the detection of fault/performance information.	TC014.002	Verified
C-MSS-60130	demo	The MSS Fault Management Application Service shall provide the capability to detect the following types of faults, errors and events: a. communications software version mismatch errors b. communication software configuration errors c. the following errors in communication hardware: 1. host not reachable 2. router not reachable 3. errors and failures of communication links d. Errors in the communications protocols supported e. degradation of performance due to established thresholds being exceeded f. Peripherals g. Databases h. Applications: 1. process missing (Application or COTS product) 2. process in a loop 3. process failed	BC002.004	Verified
C-MSS-60140	demo	The MSS Site Fault Management Application Service shall have the capability to generate a fault notification when a predefined threshold on a performance metric is exceeded.	BC002.004	Verified
C-MSS-60150	demo	The MSS Fault Management Application Service shall have the capability to receive fault notifications from the Management Agent Service.	BC002.004	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-60170	demo	The MSS EMC Fault Management Application Service shall be capable of requesting fault notification and performance degradation data from : a. Site Fault Management Applications b. Other external systems as defined in Section 5.1.	BC002.004	Verified
C-MSS-60190	test	The MSS Fault Management Application Service shall use the Logging Services to record each detected fault.	TC013.003 TC013.004 TC014.002	Verified Verified Verified
C-MSS-60200	demo	The MSS Fault Management Application Service shall have the capability to generate the following types of notifications for detected faults : a. a change in the color of an icon on a display b. a message in a pop-up notification window c. logging the following fault information to a disk log file: 1. fault type 2. date and time of occurrence of the fault 3. identification of the source of the notification (e.g. IP address, process name, etc.) 4. fault data received with the notification 5. operator-defined descriptive text d. audible alert	BC002.004	Verified
C-MSS-60310	demo	The MSS Fault Management Application Service shall provide utilities to perform diagnostics and testing of the following for the purpose of fault isolation: a. connectivity between pairs of ECS hosts and ECS routers b. ability to reach hosts and routers c. availability of network services at hosts	BC002.004	Verified
C-MSS-60340	demo	The MSS Fault Management Application Service shall be capable of Verifiying the operational status of a host.	BC002.004	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-60370	demo	The MSS Fault Management Application Service at the SMC shall be capable of sending gathered isolation, location, identification and characterization of reported faults data to the level of subsystem and equipment to the following: a. the site Fault Management Applications b. other external systems as defined in Section 5.1.	TC014.002	Verified
C-MSS-60380	demo	The MSS Fault Management Application Service at the sites shall isolate, locate, and identify faults, identify subsystem, equipment and software faults, and identify the nature of the faults detected within its site.	TC014.002	Verified
C-MSS-60500	demo	The MSS EMC Fault Management Application Service shall coordinate the recovery from conditions of performance degradation and faults with the sites and external network service providers.	TC014.002	Verified
C-MSS-60600	demo	The MSS Fault Management Application Service shall have the capability to generate, on an interactive and on a scheduled basis, reports on performance/error data that it has been configured to collect.	TC014.001 TC014.005	Verified Verified
C-MSS-60620	demo	The MSS Fault Management Application Service shall have the capability to redirect reports to: a. console b. disk file c. printer	TC014.001	Verified
C-MSS-66000	demo	The MSS performance management application service shall be capable of monitoring the performance of the following ECS components a. network components 1. routers 2. links 3. bridges 4. gateways	TC014.001 T04-01.01.09	Verified Verified
C-MSS-66010	demo/inspection	The MSS performance management application service shall be capable of monitoring ECS component protocol stack performance parameters defined in IETF RFC 1213.	TC014.001	Verified
C-MSS-66020	demo/inspection	The MSS Performance Management Application Service shall be capable of monitoring ethernet-like device performance parameters as specified in IETF RFC 1623.	TC014.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-66030	demo	The MSS performance management application service shall be capable of receiving managed object definitions for each managed object.	TC014.005	Verified
C-MSS-66040	demo	The MSS performance management application service shall be capable of specifying which available performance metrics are to be gathered from each individual managed object.	TC014.005	Verified
C-MSS-66050	demo	The MSS performance management application service shall be capable of requesting performance data from each individual managed object: a. at configurable intervals b. on demand.	TC014.005	Verified
C-MSS-66060	demo	The MSS performance management application service shall be capable of receiving requested performance data from ECS components.	TC014.005	Verified
C-MSS-66080	demo	The MSS performance management application service shall be capable of retrieving the following data for all network component interfaces: a. operational status b. type c. speed d. octets in/out e. packets in/out f. discards in/out g. errors in/out	TC014.005	Verified
C-MSS-66100	demo	The MSS performance management application service shall be capable of retrieving the following data for all hosts: a. total CPU utilization b. memory utilization c. physical disk i/o's d. disk storage size e. disk storage used f. number of active processes g. length of run queue h. network i/o's (packets) i. network errors	TC014.005	Verified
C-MSS-66120	demo	The MSS performance management application service shall be capable of determining the operational state of all network components, hosts, and peripherals to be: a. on-line b. off-line c. in test mode	TC014.001 TC014.002	Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-66130	demo	The MSS performance management application service shall be capable of receiving operational state change notifications from network components, hosts, applications, and peripherals.	TC014.001	Verified
C-MSS-66170	demo	The MSS performance management application service shall log ECS performance data pertaining to ECS network components and operating system resources.	TC013.005 TC014.001 TC014.002 TC014.005	Verified Verified Verified Verified
C-MSS-66180	demo	The MSS performance management application service shall have the capability to generate the following types of statistics for a configurable period of time for performance data stored in the Management Database: a. average b. median c. maximum d. minimum e. ratios f. rates g. standard deviations.	TC013.003	Verified
C-MSS-66190	demo	The MSS performance management application service shall provide a configurable number of thresholds for each performance metric.	TC013.005	Verified
C-MSS-66200	demo	The MSS EMC performance management application service shall be capable of creating a list of suggested initial threshold values for each performance metric.	TC013.005	Verified
C-MSS-66230	demo	The MSS performance management application service shall allow each performance metric threshold to be configurable.	TC013.005	Verified
C-MSS-66240	demo	The MSS performance management application service shall be capable of evaluating each performance metric against defined thresholds.	TC013.005	Verified
C-MSS-66250	test	The MSS performance management application service shall record an event in the local History Log whenever a threshold is crossed.	TC013.003	Verified
C-MSS-66260	demo	The MSS performance management application service shall provide queries that generate performance statistics from performance data stored in the Management Database.	TC013.003	Verified
C-MSS-66270	demo	The MSS performance management application service shall store generated performance statistics.	TC013.003	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-66310	test	The MSS performance management application service shall be capable of retrieving the following science algorithm performance data via the Management Data Access Service: a. algorithm name b. algorithm version c. start time d. stop time e. CPU utilization f. memory utilization g. disk reads h. disk writes	TC013.003 TC013.005	Verified Verified
C-MSS-68000	demo	The MSS performance management application service shall be capable of graphically displaying the operational state of managed objects through the MUI service.	TC014.004	Verified
C-MSS-68010	demo	The MSS performance management application service shall be capable of displaying M&O staff-selected performance statistics through the MUI in tabular and graphical formats.	TC014.004	Verified
C-MSS-68020	demo	The MSS performance management application service shall be capable of printing M&O staff-selected performance statistics.	TC014.004	Verified
C-MSS-68100	demo	The MSS Performance Management Application Service shall have the capability to redirect reports to: a. console b. disk file c. printer	TC014.001 TC014.005	Verified Verified
C-MSS-70010	demo	The MSS Security Management Application Service shall provide the capability to create, modify and delete user accounts with the following attributes: a. username b. password c. group identification code d. user identification code e. login directory f. command line interpreter	TC003.005	Verified
C-MSS-70020	demo	The MSS Security Management Application Service shall enable the assignment of user accounts to groups based on the group identification code.	TC003.005	Verified
C-MSS-70100	demo	The MSS site Security Management Application Service shall provide the capability to set, maintain, and update access control information for ECS resources.	TC003.005	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-70120	demo	The MSS site Security Management Application service shall provide the mechanism, for each ECS host, to allow or deny incoming requests from specific hosts to services.	TC003.002 TC003.003 TC003.004 TC003.005 TC003.006	Verified Verified Verified Verified Verified
C-MSS-70130	demo	The MSS site Security Management Application Service shall provide a command line interface and a GUI for the management of the following security databases: a. Authentication Database b. Authorization Database c. Network Database	TC003.001 TC003.005	Verified Verified
C-MSS-70300	demo	The MSS site Security Management Application Service shall have the capability to perform the following types of security tests: a. password auditing b. file system integrity checking c. auditing of user privileges d. auditing of resource access control information	TC003.001 TC003.003 TC003.004 TC003.005	Verified Verified Verified Verified
C-MSS-70520	Inspection	The MSS EMC Security Management Application Service shall provide office automation support tools to enable the generation of directives and instructions for recovery from detected security events.	TC017.001	Verified
C-MSS-70700	test	The MSS Security Management Application Service shall have the capability to generate intrusion reports on the following: a. Login failures b. Unauthorized access to ECS resources c. Break-ins d. Viruses and worms	TC003.005	Verified
C-MSS-70710	demo	The MSS Security Management Application Service shall have the capability to generate reports from collected management data.	TC014.002	Verified
C-MSS-70720	demo	The MSS Security Management Application Service shall have the capability to redirect reports to: a. console b. disk file c. printer	TC014.002	Verified
C-MSS-90150	demo	The DBMS shall support access structures (i.e., single-level indexes, multilevel indexes) to improve the efficiency of retrieval of management data.	TC013.003	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
C-MSS-90570	demo	The Report Generator shall have the capability to generate charts and graphs (e.g., bar, pie, line, etc.) from management data maintained in the DBMS.	TC013.003	Verified
C-MSS-91020	demo	The MSS Office Automation shall provide a spreadsheet capability that: a. simulates and displays an accountant's worksheet b. enables revisions and calculations on the displayed worksheet's data c. enables transfer of the worksheet data to database, word processing and graphics applications d. enables printing of worksheet information.	TS002.002 TS002.012 B03.13.01	Verified Verified Verified
S-DPS-40010	test/demo	The AITTL CI shall have the capability to receive a Science Software Delivery from the SCF electronically via the network.	BS001.001	Verified
S-DPS-40100	test/demo	The AITTL CI shall provide the operations staff with the capability to display Science Software documentation stored in any of the following formats: a. PostScript b. ASCII c. Hypertext Markup Language (HTML) d. Microsoft Word e. WordPerfect f. Adobe Acrobat Portable Document Format (PDF).	TS002.002	Verified
S-DPS-40110	test/demo	The AITTL CI shall provide the operations staff with the capability to print Science Software documentation stored in any of the following formats: a. PostScript b. ASCII c. Hypertext Markup Language (HTML) d. Microsoft Word e. WordPerfect f. Adobe Acrobat Portable Document Format (PDF).	TS002.002	Verified
S-DPS-40200	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code written in C complies with the ANSI standard specification for C.	TS002.005 T03-01.07.02 T03-01.07.01	Verified Verified Verified
S-DPS-40210	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code written in FORTRAN77 complies with the ANSI standard specification for FORTRAN77.	TS002.003 T03-01.07.02 T03-01.07.01	Verified Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-40230	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code written in FORTRAN 90 complies with the ANSI standard specification for FORTRAN 90.	TS002.004	Verified
S-DPS-40250	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code written in Ada complies with the military specification MIL-STD-1815-A.	TS002.006	Verified
S-DPS-40260	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code is POSIX-compliant.	TS002.005	Verified
S-DPS-40280	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code and Science Software scripts follow the following SDP Toolkit usage requirements (from 333-CD-002-002, SDP Toolkit Users Guide for the ECS Project. March 1995): (a) Source code does not make any prohibited POSIX function calls. (b) The Files have the correct format.	TS002.007 T03-01.07.05 T03-01.07.06	Verified Verified Verified
S-DPS-40295	test/demo	The AITTL CI shall provide 'lint-like' standards checking capabilities, including, but not limited to: Flagging argument list mismatches (type and number of arguments).	TS002.005 T03-01.07.05 T03-01.07.06	Verified Verified Verified
S-DPS-40320	test/demo	The AITTL CI shall have the capability to Verified that Science Software source code includes headers as specified in 423-16-01, Data Production Software and Science Computing Facility (SCF) Standards and Guidelines.	TS002.003 TS002.005 TS002.006	Verified Verified Verified
S-DPS-40340	test/demo	The AITTL CI shall have the capability to generate report files describing the results of standards checking.	TS002.003 TS002.004	Verified Verified
S-DPS-40400	test/demo	The AITTL CI shall have the capability to determine if the Science Software contains memory leaks.	B03.04.01 B03.05.01	Verified Verified
S-DPS-40405	test/demo	The AITTL CI shall have the capability to determine if the Science Software contains out of bounds indexing.	B03.04.01 B03.05.01	Verified Verified
S-DPS-40430	test/demo	The AITTL CI shall have the capability to generate report files describing the results of code analysis.	B03.04.01 B03.05.01	Verified Verified
S-DPS-40910	test/demo	The AITTL CI shall have the capability to find all differences between two non_ASCII data files which are greater than a tolerance specified in metadata.	TS002.010	Verified
S-DPS-40920	test/demo	The AITTL CI shall have the capability to generate report files describing the results of file comparisons.	TS002.010	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-40930	test/demo	The file comparison capability of the AITTL CI shall include the capability to read ASCII, or HDF files.	TS002.010	Verified
S-DPS-40940	test/demo	The file comparison capability of the AITTL CI shall include the capability to allow the operations staff to specify a custom data format for binary files	TS002.010	Verified
S-DPS-41000	test/demo	The AITTL CI shall have the capability to measure the CPU time of a PGE	TS002.016	Verified
S-DPS-41005	test/demo	The AITTL CI shall have the capability to measure the wall clock time of a PGE.	TS002.016	Verified
S-DPS-41010	test/demo	The AITTL CI shall have the capability to measure the CPU time of each procedure within a process.	TS002.016	Verified
S-DPS-41015	test/demo	The AITTL CI shall have the capability to measure the wall clock time of each procedure within a process.	TS002.016	Verified
S-DPS-41020	test/demo	The AITTL CI shall have the capability to measure the memory usage of a PGE.	TS002.016	Verified
S-DPS-41030	test/demo	The AITTL CI shall have the capability to measure the disk space usage of a PGE.	TS002.016	Verified
S-DPS-41035	test/demo	The AITTL CI shall have the capability to count the number of page faults for a PGE.	TS002.016	Verified
S-DPS-41040	test/demo	The AITTL CI shall have the capability to count the number of I/O accesses made by a PGE to each of its input and output data files.	TS002.016	Verified
S-DPS-41050	test/demo	The AITTL CI shall have the capability to generate report files discussing the results of profiling activities.	TS002.016	Verified
S-DPS-41400	test/demo	The DAAC I&T environment shall include access to a configuration management tool supplied by MSS.	TS002.011 BC016.003	Verified Verified
S-DPS-41410	test/demo	The DAAC I&T environment shall include access to a problem tracking tool supplied by MSS.	TS002.011 BC016.003	Verified Verified
S-DPS-41500	test/demo	The AITTL CI shall provide the capability for operations staff to write reports. This capability will include: (a) word processing, (b) spreadsheet, (c) plotting, (d) drawing.	TS002.012	Verified
S-DPS-41510	test	The AITTL CI shall provide templates for reports to be written by the operations staff. (NOTE: It is assumed that these templates will be developed by the Science Office.)	TS002.012	Verified
S-DPS-41520	test/demo	The AITTL CI shall provide the capability for operations staff to keep a running log of integration and test activities on-line.	TS002.012	Verified
S-DPS-41530	test/demo	The AITTL CI shall provide the capability for authorized users to examine the integration and test logs and other reports.	TS002.012	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-41895	test/demo	The AITTL CI shall provide to the operations staff the capability to retrieve a specified data file from local DAAC storage.	BS001.001	Verified
S-DPS-42000	test	The AITTL CI shall provide the operations staff with the capability to view the metadata associated with a data file.	TS002.015	Verified
S-DPS-42005	test	The AITTL CI shall provide the operations staff with the capability to edit the metadata associated with a data file.	TS002.015	Verified
S-DPS-42010	test	The AITTL CI shall provide the operations staff with the capability to write the metadata associated with a data file to a report file.	TS002.015	Verified
S-DPS-42100	inspection	The AITTL CI shall provide the operations staff the capability to place a Science Software Delivery Package in a non-public directory accessible to the hardware scheduled to be used for I&T.	BS001.001	Verified
S-DPS-42110	inspection	The AITTL CI shall provide the operations staff the capability to read and/or review all documentation included in the Delivery Package.	BS001.002	Verified
S-DPS-42120	test/demo	The AITTL CI shall provide the operations staff the capability to perform automated checking of all source code included in the Delivery Package against established coding standards.	BS001.002	Verified
S-DPS-42130	test/demo	The AITTL CI shall provide the operations staff the capability to perform automated checking of all scripts included in the Delivery Package against established coding standards .	BS001.002	Verified
S-DPS-42140	test/demo	The AITTL CI shall provide the operations staff the capability to perform static analyses of source code for (at a minimum) argument mismatches and variables set before used.	BS001.002	Verified
S-DPS-42150	inspection	The AITTL CI shall provide the operations staff the capability to examine all test data and expected test results files included in the Delivery Package to Verified completeness and correct format.	BS001.002	Verified
S-DPS-42160	inspection	The AITTL CI shall provide the operations staff the capability to examine all coefficient files included in the Delivery Package to Verified completeness and correct format.	BS001.002	Verified
S-DPS-42170	test/demo	The AITTL CI shall provide the operations staff the capability to compile all FORTRAN77, FORTRAN 90 and C source code included in the Delivery Package.	BS001.002	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-42175	test/demo	The AITTL CI shall provide the operations staff the capability to compile all Ada source code included in the Delivery Package for CERES.	BS001.002	Verified
S-DPS-42180	test/demo	The AITTL CI shall provide the operations staff the capability to check source code, coefficient files, test plans, test data, expected test results and other documentation into the Configuration Management tool.	BS001.002	Verified
S-DPS-42190	test/demo	The AITTL CI shall provide the operations staff (and others who are specifically authorized) the capability to check out source code, coefficient files, test plans, test data, expected test results and other documentation from the Configuration Management tool.	BS001.002	Verified
S-DPS-42200	test/demo	Whenever a Science Software Delivery is received by the AITTL from the SCF via the network, the operations staff shall insure that the SCF is notified that the delivery has been received successfully.	BS001.001	Verified
S-DPS-42300	test/demo	The AITTL CI shall provide the operations staff the capability to link FORTRAN77, FORTRAN 90, C++, and C object code with the SCF version of the SDP Toolkit.	BS001.003	Verified
S-DPS-42305	test/demo	The AITTL CI shall provide the operations staff the capability to link Ada object code for CERES with the SCF version of the SDP Toolkit.	BS001.003	Verified
S-DPS-42310	test/demo	The AITTL CI shall provide the operations staff the capability to link FORTRAN77, FORTRAN 90, C++, and C object code with the DAAC version of the SDP Toolkit.	BS001.003	Verified
S-DPS-42315	test/demo	The AITTL CI shall provide the operations staff the capability to link Ada object code for CERES with the DAAC version of the SDP Toolkit.	BS001.003	Verified
S-DPS-42320	test/demo	The AITTL CI shall provide the operations staff the capability to link FORTRAN77, FORTRAN 90, C++, and C object code with other libraries.	BS001.003	Verified
S-DPS-42325	test/demo	The AITTL CI shall provide the operations staff the capability to link Ada object code for CERES with other libraries.	BS001.003	Verified
S-DPS-42340	test/demo	The operations staff shall have the capability to perform dynamic analyses of source code for (at a minimum) memory leaks and distribution of resource demands.	TC017.001	Verified
S-DPS-42350	test/demo	The AITTL CI shall provide the operations staff the capability to execute perl, C shell or Bourne shell scripts.	BS001.003	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-42360	test/demo	The operations staff shall have the capability of determining the computing resources utilized by an execution of a PGE; viz., PGE CPU time, system CPU time, elapsed time, percent elapsed time, maximum memory used, number of page faults, number of swaps, number of block input operations, and number of block output operations.	BS001.003	Verified
S-DPS-42370	test/demo	The AITTL CI shall provide the operations staff the capability to collect during I&T the performance and resource utilization information needed for entry into or update of the PGE data base.	B03.06.01	Verified
S-DPS-42500	test/demo	The AITTL CI shall provide the operations staff the capability to execute the Test Plans included in the Delivery Package.	BS001.003 BS001.004	Verified Verified
S-DPS-42510	test	The AITTL CI shall provide the operations staff the capability of displaying Data Products.	BS001.004	Verified
S-DPS-42520	test	The AITTL CI shall provide the operations staff the capability of displaying data in intermediate files used to generate a Data Product.	BS001.004	Verified
S-DPS-42530	test	The AITTL CI shall provide the operations staff the capability of displaying data in input files used to generate a Data Product.	BS001.004	Verified
S-DPS-42540	test	The AITTL CI shall provide the operations staff the capability of displaying data in coefficient files used to generate a Data Product.	BS001.004	Verified
S-DPS-42550	test	The AITTL CI shall provide the operations staff the capability of displaying the Ancillary Data used to generate a Data Product .	BS001.004	Verified
S-DPS-42560	test	The AITTL CI shall provide the operations staff the capability of viewing the Status Information files associated with the generated Data Product.	BS001.004	Verified
S-DPS-42570	test	The AITTL CI shall provide the operations staff the capability of displaying all metadata associated with the generation of a Data Product.	BS001.004	Verified
S-DPS-42580	test/demo	The AITTL CI shall provide the operations staff the capability of comparing data in two coefficient files.	BS001.004	Verified
S-DPS-42590	test/demo	The AITTL CI shall provide the operations staff the capability of comparing two Data Product files.	BS001.004	Verified
S-DPS-42600	test/demo	The AITTL CI shall provide the operations staff the capability of comparing data in two intermediate files.	BS001.004	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-42610	test/demo	The AITTL CI shall provide the operations staff the capability to enter new PGEs into the PGE Database, along with their performance and resource utilization information.	B03.06.01	Verified
S-DPS-42620	test/demo	The AITTL CI shall provide the operations staff the capability to update information the PGE Database as necessary to reflect changes in performance and resource utilization resulting from a modification to a PGE.	B03.06.01	Verified
S-DPS-42640	test/demo	The AITTL CI shall provide the operations staff the capability to send the test results to the SCF for analysis.	BS001.004	Verified
S-DPS-42650	test/demo	The AITTL CI shall provide the operations staff the capability to write ad hoc test tools using the perl, C shell or Bourne shell script languages.	BS001.003	Verified
S-DPS-42660	test/demo	The AITTL CI shall provide the operations staff the capability to write ad hoc test tools using the FORTRAN77, FORTRAN 90, C++, and C programming languages.	BS001.003	Verified
S-DPS-42700	test/demo	The AITTL CI shall provide the operations staff the capability to enter and track discrepancy reports related to AI&T.	B03.13.01	Verified
S-DPS-42710	demo	The AITTL CI shall provide the operations staff the capability to send to and receive email messages from Science Software Developer staff and ECS staff.	TC006.002	Verified
S-DPS-42720	inspection	The AITTL CI shall provide the operations staff the capability to engage in teleconferences with Science Software Developer staff and ECS staff.	TC017.001	Verified
S-DPS-42740	test/demo	The AITTL CI shall provide the operations staff the capability to report on the status of I&T-related discrepancy reports.	TS002.012	Verified
S-DPS-42750	test/demo	The AITTL CI shall provide the operations staff the capability of record each step performed during I&T, the results and actions initiated, if any.	TS002.012	Verified
S-DPS-42760	test/demo	The AITTL CI shall provide the operations staff the capability to report on the status of the I&T activities each PGE.	TS002.012	Verified
S-DPS-42770	test/demo	The AITTL CI shall provide the operations staff the capability of writing an Inspection Report for each Science Software Delivery.	B03.13.01	Verified
S-DPS-42780	test/demo	The AITTL CI shall provide the operations staff the capability of writing an Integration Report for each Science Software Delivery.	BS001.003	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-42790	test/demo	The AITTL CI shall provide the operations staff the capability of writing an Acceptance Test Report for each Science Software Delivery.	BS001.004	Verified
S-DPS-60050	test/demo	The SPRHW CI shall contain and/or provide access to staging (working storage), I/O and processing resources necessary to perform routine processing.	TS003.004	Verified
S-DPS-60080	test	The SPRHW CI shall have provision for Initialization, Recovery, and an orderly shutdown.	TS003.005	Verified
S-DPS-60120	test/demo	The SPRHW CI shall have a status monitoring capability.	B03.07.01	Verified
S-DPS-60330	test/analysis	The SPRHW CI shall have the capacity to support I/O to temporary and intermediate storage or multiple passes over input Products as required by individual science software.	B03.13.03 B03.14.02	Verified Verified
S-DPS-60610	demo	The SPRHW CI platforms shall have provision for interfacing with one or more Local Area Networks (LANs).	B03.13.02	Verified
S-DPS-60710	inspection	The electrical power requirements for SPRHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2)	TC017.001	Verified
S-DPS-60740	inspection	The air conditioning requirements for the SPRHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-60750	inspection	The grounding requirements for SPRHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-60760	inspection	The fire alarm requirements for SPRHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-60780	inspection	The physical interface requirements between SPRHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-60790	inspection	The footprint size and the physical layout of SPRHW CI equipment shall be in accordance with the and ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-60910	inspection	The SPRHW CI shall support test activities throughout the development phase.	TC017.001	Verified
S-DPS-60930	inspection	The SPRHW CI shall provide test tools as designated in the SDPS Test Tool Matrix.	TC017.001	Verified
S-DPS-60970	test/demo	The SPRHW CI shall be capable of being monitored during testing.	TS003.004	Verified
S-DPS-61110	test/analysis	The operating system for each UNIX platform in the SPRHW CI shall conform to the POSIX.2 standard.	TS003.006	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-61120	demo/inspection	The SPRHW CI POSIX.2 compliant platform shall have the following utilities installed at a minimum: perl, emacs, gzip, tar, imake, prof, gprof, nm.	TS003.006	Verified
S-DPS-61130	inspection	The SPRHW CI POSIX.2 compliant platform shall have the following POSIX.2 user Portability Utilities installed at a minimum: man, vi.	TS003.006	Verified
S-DPS-61140	inspection	The SPRHW CI POSIX.2 compliant platform shall have the following POSIX.2 Software Development Utilities installed at a minimum: make.	TS003.006	Verified
S-DPS-61150	inspection	The SPRHW CI POSIX.2 compliant platform shall have the following POSIX.2 C-Language Development Utilities installed at a minimum: lex, yacc.	TS003.006	Verified
S-DPS-61160	inspection	The SPRHW CI POSIX.2 compliant platform shall have the following UNIX shells installed at a minimum: C shell, Bourne shell, Korn shell.	TS003.006	Verified
S-DPS-61170	inspection	The SPRHW CI POSIX.2 compliant platform shall have on-line documentation or printed documentation for each installed tool.	TS003.008	Verified
S-DPS-61171	inspection	The SPRHW CI shall have provision for a dynamic analyzer to support the capability to check Science Software source code for memory leaks.	TC017.001	Verified
S-DPS-61172	inspection	The SPRHW CI POSIX.2 compliant platform shall have installed one or more development environment supporting the following languages: a. C b. C++ c. FORTRAN 77 d. FORTRAN 90	TC017.001	Verified
S-DPS-61173	test/demo	Each development environment associated with the POSIX.2 compliant platform in the SPRHW CI shall have the capability to compile and link strictly conformant POSIX-compliant source code.	TS002.005	Verified
S-DPS-61174	test/demo	Each development environment associated with the POSIX.2 compliant platform in the SPRHW CI shall have the capability to compile and link source code containing extensions specified in the Data Productions S/W and SCF Standards and Guidelines.	TS002.005	Verified
S-DPS-61175	inspection	Each development environment associated with the POSIX.2 compliant platform in the SPRHW CI shall have an interactive source level debugger for ECS supported languages.	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-61177	inspection	The SPRHW CI POSIX.2 compliant platform supporting AI&T of CERES S/W shall have installed an ADA development environment.	TC017.001	Verified
S-DPS-70010	test	The AITHW CI shall provide hardware resources to operations staff for the monitor and control of Science Software Integration and Test (AI&T) on SPRHW CI processing resources.	TC017.001	Verified
S-DPS-70030	demo	The AITHW CI shall provide hardware resources to operations staff for the monitor and control of Science Software configuration management.	TC017.001	Verified
S-DPS-70060	test/demo	The AITHW CI shall have provision for Initialization, Recovery, and an orderly shutdown.	TS003.005	Verified
S-DPS-70070	inspection	The AITHW CI shall have a status monitoring capability.	TC017.001	Verified
S-DPS-70110	inspection	The operating system for each UNIX platform in the AITHW CI shall conform to the POSIX.2 standard.	TC017.001	Verified
S-DPS-70120	inspection	The AITHW CI POSIX.2 compliant platform shall have the following utilities installed at a minimum: perl, emacs, gzip, tar, imake, prof, gprof, nm.	TC017.001	Verified
S-DPS-70130	inspection	The AITHW CI POSIX.2 compliant platform shall have the following POSIX.2 User Portability Utilities installed at a minimum: man, vi.	TC017.001	Verified
S-DPS-70140	inspection	The AITHW CI POSIX.2 compliant platform shall have the following POSIX.2 Software Development Utilities installed at a minimum: make.	TC017.001	Verified
S-DPS-70150	inspection	The AITHW CI POSIX.2 compliant platform shall have the following POSIX.2 C-Language Development Utilities installed at a minimum: lex, yacc.	TC017.001	Verified
S-DPS-70160	inspection	The AITHW CI POSIX.2 compliant platform shall have the following UNIX shells installed at a minimum: C shell, Bourne shell, Korn shell.	TC017.001	Verified
S-DPS-70180	inspection	The AITHW CI shall have provision for a dynamic analyzer to support the capability to check Science Software source code for memory leaks.	TC017.001	Verified
S-DPS-70183	inspection	The AITHW CI POSIX.2 compliant platform shall have on-line documentation or printed documentation for each installed tool.	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-70190	inspection	The AITHW CI POSIX.2 compliant platform shall have installed one or more development environment supporting the following languages: a. C b. C++ c. FORTRAN 77 d. FORTRAN 90	TC017.001	Verified
S-DPS-70220	inspection	Each development environment associated with the POSIX.2 compliant platform in the AITHW CI shall have the capability to compile and link strictly conformant POSIX-compliant source code.	TC017.001	Verified
S-DPS-70230	inspection	Each development environment associated with the POSIX.2 compliant platform in the AITHW CI shall have the capability to compile and link source code containing extensions specified in the Data Production S/W and SCF Standards and Guidelines.	TC017.001	Unverified
S-DPS-70240	inspection	Each development environment associated with the POSIX.2 compliant platform in the AITHW CI shall have an interactive source level debugger for ECS supported languages.	TC017.001	Verified
S-DPS-70250	inspection	Each development environment associated with the POSIX.2 compliant platform in the AITHW CI shall have a screen capture utility.	TC017.001	Verified
S-DPS-70260	inspection	The AITHW CI shall include a set of profiling tools, with the capability to measure the average and maximum of the following:	TC017.001	Verified
S-DPS-70270	test/demo	The AITHW CI profiling tools shall be accessible via an API (application program interface).	TS002.016	Verified
S-DPS-70280	test/demo	The AITHW CI profiling tools shall be accessible via a GUI (graphical user interface).	TS002.016	Verified
S-DPS-70310	inspection	The AITHW CI platforms shall have provision for interfacing with one or more Local Area Networks (LANs).	TC017.001	Verified
S-DPS-70710	inspection	The electrical power requirements for AITHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-70740	inspection	The air conditioning requirements for the AITHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-70750	inspection	The grounding requirements for AITHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-DPS-70760	inspection	The fire alarm requirements for AITHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-70780	inspection	The physical interface requirements between AITHW CI equipment and the facility shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DPS-70790	inspection	The footprint size and the physical layout of AITHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-DSS-00010	test	The SDSRV CI shall accept Data Requests for Data that is managed within the STMGT CI.	TS006.003 TS006.004	Verified Verified
S-DSS-00020	test	The SDSRV CI shall accept Service Requests from clients.	TS006.001 TS006.002	Verified Verified
S-DSS-00060	test	The SDSRV CI shall acknowledge the receipt of Service Requests from local and remote clients.	TS006.001 TS006.002	Verified Verified
S-DSS-00095	test	The SDSRV CI shall return a Reject Notification if a Service Request fails validation.	TS006.002	Verified
S-DSS-01070	test	The SDSRV CI shall respond to a Data Request with a response that shall contain a status and a pointer to the data.	TS006.003 TS006.004	Verified Verified
S-DSS-01400	test	The SDSRV CI shall log the termination of the processing of a Service Request.	TS006.001 TS006.002	Verified Verified
S-DSS-01405	test	The SDSRV CI shall log the termination of client session.	TS006.001 TS006.002 TS006.003 TS006.004	Verified Verified Verified Verified
S-DSS-01430	test	The SDSRV CI shall log the initiation of the processing of a Service Request.	TS006.001 TS006.002	Verified Verified
S-DSS-01760	test	The SDSRV CI shall log all reported error conditions.	TS006.001 TS006.002 TS006.003 TS006.004	Verified Verified Verified Verified
S-INS-00010	test	The INGST CI shall accept Network Ingest Requests to request automated electronic network ingest of a collection of Data. The collection of Data shall describe one or more Data Granules.	BS002.001 BS002.002 TS004.005	Verified Verified Verified
S-INS-00020	test	The INGST CI shall check the Network Ingest Request to Verified that the date/time prior to which the data will remain available is a valid date/time.	TS004.008	Verified
S-INS-00030	test	The INGST CI shall authenticate the provider of a Network Ingest Request as an authorized provider of data to be ingested.	TS004.001 TS004.002 TS004.003 TS004.004	Verified Verified Verified Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-INS-00040	test	The INGST CI shall report status to the provider of a Network Ingest Request and to the Error Log indicating successful or unsuccessful authentication of the provider as authorized to submit the request.	BS002.001 BS002.002 TS004.001 TS004.002 TS004.003 TS004.004	Verified Verified Verified Verified Verified Verified
S-INS-00060	test	The INGST CI shall report status to the provider of a Network Ingest Request for the following: a. File transfer failure b. File size discrepancies c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Missing required request information j. Successful archive of the data	BS002.003 BS002.004	Verified Verified
S-INS-00062	test	The INGST CI shall report the following events by means of the CSS Event Logger Service, during the processing of a Network Ingest Request: a. Receipt of an unexpected message from the ingest provider; b. Detection of invalid information on a message received from the ingest provider; c. Communication failure with the provider of the Ingest Request, as reported to the INGST CI by CSS communication services; d. File transfer failures reported to the INGST CI by the CSS File Access Service; e. Detection of discrepancies between the number and sizes of the file(s) received and the specifications in the Ingest Request.	BS002.003 BS002.004	Verified Verified
S-INS-00064	test	The INGST CI shall report the following events by means of the CSS Event Logger Service, during tests of the network ingest interface between ECS and TRMM: a. Receipt of a message by the Ingest interface; b. Start of processing for a valid Ingest Request; c. Completion of all processing associated with the Ingest Request	BS002.001 BS002.002	Verified Verified
S-INS-00100	test	The INGST CI shall provide the capability to periodically check a location accessible to the ESN for the presence of data granule files.	BS002.005	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-INS-00110	test	The INGST CI shall submit an Polling Ingest Request after detecting the presence of data granule files in a location accessible to the ESN. The request shall contain the file location.	BS002.005	Verified
S-INS-00415	test	The INGST CI shall provide an interim capability to electronically transfer data to be ingested via the ESN into a specified ECS storage location for early interface testing purposes.	BS002.001 BS002.002 BS002.005 TS005.001 TS005.002 TS005.003 TS005.004	Verified Verified Verified Verified Verified Verified Verified
S-INS-00520	test	The INGST CI shall ingest data, provided by the SDPF, from the ESN into the LaRC DAAC, using a file transfer protocol.	BS002.001 TS005.001 TS005.003	Verified Verified Verified
S-INS-00540	test	The INGST CI shall ingest data, provided by the SDPF, from the ESN into the MSFC DAAC using a file transfer protocol.	BS002.001 TS005.001 TS005.003	Verified Verified Verified
S-INS-00560	test	The INGST CI shall ingest Data, provided by the TSDIS, from the ESN into the GSFC DAAC using a file transfer protocol.	BS002.002 TS005.002 TS005.004	Verified Verified Verified
S-INS-00570	test	The INGST CI shall ingest Data, provided by the TSDIS, from the ESN into the MSFC DAAC using a file transfer protocol.	BS002.002 TS005.002 TS005.004	Verified Verified Verified
S-INS-00620	demo	The INGST CI shall ingest data, provided by the DAO, from the ESN into the LaRC DAAC using a file transfer protocol.	BS002.005	Verified
S-INS-00630	demo	The INGST CI shall ingest data, provided by NESDIS, from the ESN into the LaRC DAAC using a file transfer protocol.	BS002.005	Verified
S-INS-00640	demo	The INGST CI shall ingest data, provided by the DAO, from the ESN into the GSFC DAAC using a file transfer protocol.	BS002.005	Verified
S-INS-60150	demo	The ICLHW CI shall have provision for Initialization, Recovery, and an orderly shutdown.	TS003.005	Verified
S-INS-60190	demo	The ICLHW CI shall have a status monitoring capability.	TS003.005	Verified
S-INS-60430	inspection	The ICLHW CI platforms shall have provision for interfacing with one or more Local Area Networks (LANs).	TC017.001	Verified
S-INS-60510	inspection	The electrical power requirements for ICLHW CI equipment shall be in accordance with and the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-INS-60540	inspection	The air conditioning requirements for ICLHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-INS-60550	inspection	The grounding requirements for ICLHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-INS-60560	inspection	The fire alarm requirements for ICLHW CI equipment shall be in accordance with ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-INS-60580	inspection	The physical interface requirements between ICLHW CI equipment and the facility shall be in accordance with ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-INS-60590	inspection	The footprint size and the physical layout of ICLHW CI equipment shall be in accordance with the ECS Facilities Plan (DID 302/DV2).	TC017.001	Verified
S-INS-60605	inspection	The ICLHW CI shall support test activities throughout the development phase.	S/W Development Notebooks	Verified
S-INS-60610	inspection	The following testing shall be performed on the ICLHW CI: a. Unit Testing b. Subsystem testing c. Integration & Testing d. End-to-End testing	S/W Development Notebooks and I&T CDRs	Verified
S-INS-60650	inspection	The ICLHW CI shall be capable of being monitored during testing.	TC017.001	Verified
S-INS-60810	inspection	The operating system for each UNIX platform in the ICLHW CI shall conform to the POSIX.2 standard.	TC017.001	Verified
S-INS-60820	inspection	The ICLHW CI POSIX.2 compliant platform shall have the following utilities installed at a minimum: perl, emacs, gzip, tar, imake, prof, gprof, nm.	TC017.001	Verified
S-INS-60830	inspection	The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 user Portability Utilities installed at a minimum: man, vi.	TC017.001	Verified
S-INS-60840	inspection	The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 Software Development Utilities installed at a minimum: make.	TC017.001	Verified
S-INS-60850	inspection	The ICLHW CI POSIX.2 compliant platform shall have the following POSIX.2 C-Language Development Utilities installed at a minimum: lex, yacc.	TC017.001	Verified
S-INS-60860	inspection	The ICLHW CI POSIX.2 compliant platform shall have the following UNIX shells installed at a minimum: C shell, Bourne shell, Korn shell.	TC017.001	Verified
S-INS-60870	inspection	The ICLHW CI POSIX.2 compliant platform shall have on-line documentation or printed documentation for each installed tool.	TC017.001	Verified
S-INS-60880	inspection	The ICLHW CI POSIX.2 compliant platform shall have installed one or more development environment supporting the following languages:	TC017.001	Verified

Paragraph_ID	Verif_Method	Text	Test_ID	Status
S-INS-60890	inspection	Each development environment associated with the POSIX.2 compliant platform in the ICLHW CI shall have the capability to compile and link strictly conformant POSIX-compliant source code.	TC017.001	Verified
S-INS-60895	inspection	Each development environment associated with the POSIX.2 compliant platform in the ICLHWCI shall have an interactive source level debugger for ECS supported languages.	TC017.001	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC003.008	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC004.001	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC004.002	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC004.003	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC005.001	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC005.002	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC005.003	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC005.004	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		TC005.005	Verified
No Explicit Requirements - Basic Demo of DCE DNS	demo		BC008.001	Verified

TRMM ICD Section References for Test Traceability

Section	Title	Description	Test_ID
4.2	<u>TABLE 4-1. CONTROL MESSAGES</u>	Handshaking control messages and file transfer sequences. Includes a high level description for each message and its purpose.	
4.2.1	<u>FIGURE 4-1. ECS RETRIEVES DATA FROM TSDIS</u>	Event traces for message sequencing and handshaking between TSDIS and ECS.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002
4.2.2	<u>FIGURE 4-2. TSDIS REQUESTS/RETRIEVES DATA FROM ECS</u>	Event traces for message sequencing and handshaking between TSDIS and ECS.	TS006.003 TS006.004
4.2.3	<u>FIGURE 4-3. TSDIS REQUESTS DATA FOR TSUS</u>	Event traces for message sequencing and handshaking between TSDIS / ECS and TSUs / ECS.	TS006.003 TS006.004
4.2.4	<u>FIGURE 4-4. TSDIS REQUESTS STATUS OF DATA REQUEST</u>	Event traces for message sequencing and handshaking between TSDIS and ECS.	TS006.003 TS006.004
4.2.5	<u>FIGURE 4-5. TSDIS SENDS ECS CANCELLATION REQUEST</u>	Event traces for message sequencing and handshaking between TSDIS and ECS.	
4.3.1	<u>TABLE 4-2. AUTHENTICATION REQUEST MESSAGE DEFINITION</u>	Message format and contents for Authentication Request.	TS004.001 TS004.002 TS004.003 TS004.004
4.3.2	<u>TABLE 4-3. AUTHENTICATION RESPONSE</u>	Message format and contents for Authentication Response.	TS004.001 TS004.002 TS004.003 TS004.004
4.3.3	<u>TABLE 4-4. DAN MESSAGE HEADER, AND EDU AND DAN LABELS</u>	Message format and contents for Data Availability Notice.	TS004.005 TS004.006 TS004.007 TS004.008
4.3.3	<u>TABLE 4-5. REQUIRED DAN PVL PARAMETERS</u>	PVL parameter descriptions and data types.	TS004.005 TS004.006 TS004.007 TS004.008
4.3.4	<u>TABLE 4-6. SHORT DAA MESSAGE DEFINITION</u>	Message format and contents for Short Data Availability Acknowledgment.	TS004.005 TS004.006 BS002.001 BS002.002
4.3.4	<u>TABLE 4-7. LONG DAA MESSAGE DEFINITION</u>	Message format and contents for Long Data Availability Acknowledgment.	TS004.007 TS004.008 BS002.003 BS002.004

Section	Title	Description	Test_ID
4.3.5	<u>TABLE 4-8. SHORT DDN MESSAGE DEFINITION</u>	Message format and contents for Short Data Delivery Notice.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002
4.3.5	<u>TABLE 4-9. LONG DDN MESSAGE DEFINITION</u>	Message format and contents for Long Data Delivery Notice.	BS002.003 BS002.004
4.3.6	<u>TABLE 4-10. SHORT DDA MESSAGE DEFINITION</u>	Message format and contents for Short Data Delivery Acknowledgment.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002
4.3.6	<u>TABLE 4-11. LONG DDA MESSAGE DEFINITION</u>	Message format and contents for Long Data Delivery Acknowledgment.	BS002.003 BS002.004
4.3.7	<u>TABLE 4-12. DR MESSAGE FORMAT</u>	Message format and contents for Data Request.	TS006.003 TS006.004
4.3.8	<u>TABLE 4-13. DRA MESSAGE FORMAT</u>	Message format and contents for Data Request Acknowledgment.	TS006.003 TS006.004
4.3.11	<u>TABLE 4-16. DATA REQUEST/SUBSCRIPTION STATUS REQUEST</u>	Message format and contents for Data Request/Subscription Status Request.	TS006.003 TS006.004
4.3.12	<u>TABLE 4-17. DATA REQUEST/SUBSCRIPTION STATUS</u>	Message format and contents for Data Request/Subscription Status.	TS006.003 TS006.004
4.3.13	<u>TABLE 4-18. DATA REQUEST/SUBSCRIPTION CANCELLATION REQUEST</u>	Message format and contents for Data Request/Subscription Cancellation Request.	TS006.003 TS006.004
4.3.14	<u>TABLE 4-19. DATA REQUEST/SUBSCRIPTION CANCELLATION</u>	Message format and contents for Data Request/Subscription Cancellation.	TS006.003 TS006.004
5.0	<u>FIGURE 5-1. DATA FLOWS BETWEEN ECS AND TSDIS</u>	High Level description of data flows between TSDIS/GSFC and TSDIS/MSFC.	
5.3.2	<u>ANCILLARY DATA - NATIONAL METEOROLOGICAL CENTER (NMC)</u>	Description of data transfers from ECS to TSDIS.	TS006.003 TS006.004

Objective	Implementation Object	Test_ID
Provide error logging notifying system operators of conditions requiring their attention.		B03.06.02
Objective	Implementation Object	Test_ID
Provide interfaces to CSS and MSS APIs.		B03.06.02
To be able to enter planning and resource profile information for a PGE type into its PGE Profile.	DpAtPrGui, DpAtPgeDb (all GUIs)	B03.06.03
To be able to run an individual instance of a PGE type.	All	B03.06.06
To be able to run individual instances of a PGE type with different input data.	All	B03.06.04
To be able to capture the resource usage profile for a PGE execution.	AI&T profiling tool	B03.06.12
To include the same scheduling COTS as selected for Release A Planning and Processing.	Scheduling COTS	B03.06.11
To be able to generate processing log for all data processing.	AI&T profiling tool	B03.06.11 B03.06.12
To be able to select an input/output/log file for a PGE instance and initiate its viewing.	DpAtDataView, DpAtFileList, DpAtFileListGui (all GUIs)	B03.06.07

Note: NO automated planning functionality or data server access is planned for Ir1. Data is assumed available on a local

Remote AI&T Access for SCFs Objectives for Test Traceability

Objective	Implementation Object	Test_ID
Capability provides remote users to access the various AI&T utilities at a given DAAC for purposes of algorithm integration and test prior to delivery of the SCF version to the DAAC.		BS001.005

The following matrix provides a mapping of Ir1 RBRs to test cases, with EDF verification status.

Req't_ID	Verif_Method	Text	Test_ID	Status
DADS0130#Ir1	test	Each DADS shall receive from the SDPF, at a minimum, the following: a. Production data (L0)	TS004.005 TS005.001 TS005.003	Verified Verified Verified
DADS0145#Ir1	test	Each DADS shall be capable of receiving from the ADCs, at a minimum, the following for the purpose of product generation: b. Metadata c. Ancillary data	BS002.005	Verified
DADS0170#Ir1	test	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata	TS004.005 TS004.006 TS005.002 TS005.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified Verified
DADS0190#Ir1	test	Each DADS shall receive from the SCF, at a minimum, the following: g. Algorithms	BS002.001 T03-01.05.01	Verified Verified
DADS0250#Ir1	test	Each DADS shall receive, at a minimum, data in the following forms: b. Electronic communications network	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002 BS002.005	Verified Verified Verified Verified Verified Verified Verified
DADS0260#	test	Each DADS shall receive non-EOS correlative and ancillary digital data.	BS002.005	Verified
DADS1070#Ir1	test	The DADS shall send data check and storage status to the provider of ingest data.	BS002.003 BS002.004	Verified Verified
DADS1380#	test	Each DADS shall monitor data transfer between external (non-ECS) elements and the DADS.	BS002.003 BS002.004	Verified Verified
DADS1400#Ir1	test	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.	BS002.003 BS002.004	Verified Verified
DADS2450#Ir1	test	Each DADS shall distribute data to elements of EOSDIS and approved non-EOSDIS data destinations.	TS006.001 TS006.002 TS006.003 TS006.004	Verified Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
EOSD0500#Ir1	test	ECS shall perform the following major functions: d. Communications and Networking e. Data Input f. Data Processing	B01.01.01 B01.01.02 B01.01.03 B03.06.01 B03.06.02 B03.06.03 B03.06.04 B03.06.05 B03.06.06 B03.06.07 B03.06.08 B03.06.09 B03.06.10 B03.06.11 B03.06.12	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
EOSD0502#Ir1	demo	ECS shall provide an integrated set of toolkits consisting of software tools for each ECS element.	B03.04.01 B03.05.01 B03.06.01 B03.06.02 B03.06.03 B03.06.04 B03.06.05 B03.06.06 B03.06.07 B03.06.08 B03.06.09 B03.06.10 B03.06.11 B03.06.12 T03-01.08.01 T03-01.08.02 T03-01.08.03 T03-01.09.01 T03-01.09.02 T03-01.09.03 TS001.002	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
EOSD0510#Ir1	inspection	ECS shall be capable of being tested during all phases of its development .	TC017.001	Verified
EOSD0730#Ir1	inspection	Each ECS element shall be capable of Verifying the fidelity of the ECS element interface to: b. Entities external to ECS at any time during the lifetime of the ECS	TC017.001	Verified
EOSD0780#Ir1	demo	Each ECS element shall be capable of being monitored during testing.	TC014.001	Verified
EOSD1607#Ir1	test	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a. TRMM data for temporary storage for testing purposes only.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
EOSD1608#Ir1	test	ECS elements shall receive from EPDSs the following at a minimum: a. Data products e. Metadata	TS005.002 TS005.003 TS005.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified
EOSD1703#Ir1	demo	ECS shall provide maintenance and operations interfaces to the DAACs to support the functions of: b. Science Algorithm Integration	T04-01.05.01	Verified
EOSD1710#Ir1	demo	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: d. Science Data	BS002.005	Verified
EOSD1750#Ir1	demo	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is): a. Algorithms b. Software fixes d. Integration support requests	B03.13.01 B03.13.02 T03-01.04.02	Verified Verified Verified
EOSD1760#Ir1	demo	The ECS elements shall send the following types of data at a minimum to the ECS science community (TLs, TMs, PIs, and Co-Is): a. Software Problem Reports	B03.13.01 B03.13.02	Verified Verified
EOSD3200#Ir1	inspection	A minimum of one backup which is maintained in a separate physical location (i.e., different building) shall be maintained for ECS software.	T04-01.05.02	Verified
EOSD5020#Ir1	inspection	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.	TC017.001	Verified
ESN-0003#Ir1	demo	The ESN shall enable researchers on existing networks (TCP/IP and GOSIP) to gain access to data and ECS services in a transparent manner to the underlying differences between the networks.	B01.01.01 B01.01.02 B01.01.03 T01-02.02.01 T01-02.02.02 T01-02.02.03 T01-02.02.04 T01-02.05.07	Verified Verified Verified Verified Verified Verified Verified Verified
ESN-0006#Ir1	analysis	ESN shall interface with NSI to reach all external non-ECS network-attached facilities and science users.	B01.01.02 B01.01.03	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
ESN-0010#Ir1	test	ESN shall provide the following standard services: a. Data Transfer and Management Services b. Electronic Messaging Service c. Remote Terminal Service d. Process to Process Communication Service e. Directory and User Access Control Service f. Network Management Service g. Network Security and Access Control Service h. Internetwork Interface Services	B01.01.01 B01.01.02 B01.01.03 B01.02.01 B01.02.02 T01-02.04.01 TC003.001 TC003.002 TC003.007 TC003.008 TC006.002 TC014.002	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
ESN-0070#Ir1	test	The ESN shall support the elements data flow requirements identified in this specification.	B03.14.02	Verified
ESN-0210#Ir1	test	The ESN management function shall have a capability to obtain status on specific data flows to assure the successful operation of ESN.	TC014.001	Verified
ESN-0250#Ir1	demo	The ESN shall provide a help service to assist users with communication questions and problems.	Not part of Ir1	
ESN-0280#Ir1	test	The ESN shall provide file transfer and management service and as a minimum shall include the capability to transfer the following data types: a. Unstructured Text b. Binary Unstructured c. Binary Sequential d. Sequential Text	T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08 B01.07.01 B01.07.02 TC009.001 TC009.004	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
ESN-0290#Ir1	test	The file transfer and management service shall be available in interactive and non-interactive services.	T01-02.04.01 T01-02.04.02 T01-02.04.03 T01-02.04.04 T01-02.04.05 T01-02.04.06 T01-02.04.07 T01-02.04.08 B01.07.01 B01.07.02 TC009.001 TC009.004	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
ESN-0370#Ir1	test	The ESN shall provide interactive virtual terminal services.	B01.01.01 B01.01.02 B01.01.03	Verified Verified Verified
ESN-0620#Ir1	test	The ESN shall include a network management function to monitor and control the ESN.	TC014.001 TC014.002	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
ESN-0640#Ir1	test	The ESN shall include management functions at each ECS element, equipment or gateway within the ESN.	TC014.001 TC014.002	Verified Verified
ESN-0650#Ir1	test	The ESN shall perform the following network management functions for each protocol stack implemented in any ECS element, and each communications facility: a. Network Configuration Management b. Network Fault Management c. Network Performance Management d. Network Security Management	TC013.005 TC014.001 TC014.002 TC014.003 TC014.005	Verified Verified Verified Verified Verified
ESN-0740#Ir1	test	The ESN network management service shall retrieve performance/fault data about ESN protocol stacks and equipment.	TC014.005	Verified
ESN-0760#Ir1	test	The ESN report generation function shall provide, on an interactive and scheduled basis, network configuration, fault and performance management information.	TC014.002 TC014.005	Verified Verified
ESN-0775#Ir1	test	The ESN management service shall have the capability to redirect its reports to different devices such as console, disk or printer.	TC014.002	Verified
ESN-0790#Ir1	test	The ESN shall include the following configuration management functions at a minimum: a. collect information describing the state of the network subsystem and its communications resources, b. exercise control over the configuration, parameters, and resources of the subsystem, and over the information collected, c. store the configuration information collected, and d. display the configuration information.	TC014.002	Verified
ESN-0800#Ir1	test	The ESN shall be capable of displaying the local network configuration status related to each system locally, and for all systems at the ESN network management facility.	TC014.001	Verified
ESN-0830#Ir1	test	The ESN shall have the capability to detect and report communications related errors and events both locally and at the ESN network management facility.	TC014.001 TC014.002	Verified Verified
ESN-0840#Ir1	test	The ESN shall have error reporting and event logging.	TC013.003 TC014.003	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
ESN-1340#Ir1	inspection	The ESN shall provide support for TCP/IP communications protocols and services to external interfaces as required by the IRDs.	T01-02.05.07	Verified
ESN-1350#Ir1	inspection	The ESN LANs shall provide physical devices and the corresponding medium access control (MAC) protocol compatible with ISO and ANSI standards.	TC017.001	Verified
NI-0400#Ir1		ECS shall have the capability to interface with NASA Data Processing Facilities (including the GSFC SDPF) via NOLAN to receive the following data (at a minimum): a. Science data b. Ancillary data c. Orbit data	TS005.001 TS005.003 BS002.001	Verified Verified Verified
PGS-0270#Ir1	test	The PGS shall provide the capability to perform the following functions, at a minimum: b. Suspend execution of tasks c. Resume execution of a suspended task d. Cancel execution of tasks	B03.06.01	Verified
PGS-0360#Ir1	test	The PGS shall generate a PGS processing log that accounts for all data processing activities.	B03.06.01 B03.06.02 B03.06.03 B03.06.04 B03.06.05 B03.06.06 B03.06.07 B03.06.08 B03.06.09 B03.06.10 B03.06.11 B03.06.12 B03.07.01 B03.07.02 B03.07.03 B03.07.04	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
PGS-0370#Ir1	test	The PGS shall utilize the LSM to generate a PGS resource utilization report.	B03.06.01 B03.06.11 B03.06.12 B03.07.01	not part of Ir1 not part of Ir1 not part of Ir1 not part of Ir1
PGS-0400#Ir1	test	The PGS shall have the capability to monitor the status of all algorithm and calibration coefficient testing and generate algorithm and calibration test reports.	B03.06.12	Verified
PGS-0430#Ir1	test	The PGS shall utilize the LSM to monitor and account for data and information transfer between it and other EOSDIS elements.	T01-02.05.07	Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
PGS-0490#Ir1	test	The PGS shall have the capability to access and use, for the generation of Standard Products, information such as: a. Digital terrain map databases b. Land/sea databases c. Climatology databases d. Digital political map databases	B03.10.01 B03.10.02 B03.10.03 B03.10.04 B03.10.05 B03.10.06 B03.10.07	Verified Verified Unverified Verified Verified Verified Verified
PGS-0602#Ir1	test	The PGS shall have the capability to accept POSIX-compliant science algorithms and compile algorithm source code written in a standard programming language (e.g., Fortran, C, Ada).	B03.03.01 B03.03.02 B03.03.03	Verified Verified Verified
PGS-0610#Ir1	test	The PGS shall accept from the SCFs new or modified calibration coefficients to be validated in the test environment. Calibration coefficients shall contain the following information at a minimum: a. Identification of coefficient data set b. Calibration coefficients values c. Author and version number d. Identification of related processing algorithm e. Start and stop date/time of applicability f. Date and time g. SCF identification h. Reasons for update	T03-01.09.01 T03-01.09.02 T03-01.09.03	Verified Verified Verified
PGS-0620#Ir1	test	The PGS shall have the capability to validate received calibration coefficients for completeness and correct format.	BS001.002	Verified
PGS-0640#Ir1	test	The PGS shall accept from the SCF new or modified Standard Product algorithms to be tested at the processing facility. This software shall be received into the test environment and shall contain the following information at a minimum : a. Algorithm identification b. Algorithm source code c. List of required inputs d. Processing dependencies e. Test data and procedures f. Algorithm documentation	T03-01.05.01 T03-01.05.06	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
PGS-0650#Ir1	test	The PGS shall have the capability to validate required operational algorithm characteristics prior to scheduling algorithm test time. These characteristics shall be include at a minimum: a. Language b. Operational impacts (e.g., algorithm software size, required resources) c. Algorithm documentation d. Data handling standards as appropriate e. Units and models used f. Operational compatibility g. Required metadata outputs	B03.03.01 B03.03.02 B03.03.03	Verified Verified Verified
PGS-0860#Ir1	test	The PGS shall have the capability to schedule and coordinate algorithm and calibration coefficient test time in the test environment with the appropriate SCF.	B03.13.01 B03.13.02	Verified Verified
PGS-0900#Ir1	test	The PGS shall send test products to the SCF for analysis. These shall contain the results of algorithm testing and shall contain the following information at a minimum: a. Algorithm identification b. Test time(s) c. Processor identification d. Test results	B03.09.01 B03.09.02 B03.09.03	Verified Verified Verified
PGS-0910#Ir1	test	The PGS shall have the capability to support analysis of algorithm test results.	B03.08.01 B03.08.02 B03.09.01 B03.09.02 B03.09.03	Verified Verified Verified Verified Verified
PGS-0920#Ir1	test	The PGS shall have the capability to validate, through testing, that SCF processing algorithms will execute properly in the operational environment. Validation shall include final compilation and linkage of the source code and testing to Verified proper software execution in the operational environment based on indicated data and test results provided by the SCF and the investigator, but shall not include scientific validation of products.	B03.04.01 B03.05.01 B03.08.01 B03.08.02 BS001.002 T03-01.08.01 T03-01.08.03 TS001.001 TS001.002 TS001.003	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
PGS-0925#Ir1	test	The PGS shall validate algorithms used for conversions, calibrations and transformations of EOS engineering data.	B03.04.01 B03.05.01 TS001.001 TS001.002 TS001.003	Verified Verified Verified Verified Verified
PGS-0940#Ir1	test	The PGS shall provide storage for all candidate algorithms' software executables and calibration coefficients.	TC017.001 TS001.00	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
PGS-0950#Ir1	test	The PGS shall interface to the SMC to maintain configuration control of all algorithms and calibration coefficients used in operational Standard Product production. Controlled information shall contain at a minimum: a. Source code including version number and author b. Benchmark test procedures, test data, and results c. Date and time of operational installation d. Compiler identification and version e. Final algorithm documentation	B03.02.01 T03-01.05.01 T03-01.05.06	Verified Verified Verified
PGS-0970#Ir1	test	The PGS shall provide file access subroutines that enforce compliance with the adopted standard ECS formats.	TS001.002 TS001.003	Verified Verified
PGS-0980#Ir1	test	The PGS shall provide job control routines that provide all required task parameters to the Standard Product software.	B03.06.01 B03.06.02 B03.06.03 B03.06.04 B03.06.05 B03.06.06 B03.06.07 B03.06.08 B03.06.09 B03.06.10 B03.06.11 B03.06.12	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
PGS-0990#Ir1	test	The PGS shall provide error logging subroutines for use by Standard Product software in notifying the system operators of conditions requiring their attention.	B03.06.01 B03.06.02 B03.06.03 B03.06.04 B03.06.05 B03.06.06 B03.06.07 B03.06.08 B03.06.09 B03.06.10 B03.08.01 B03.08.02 TS001.003	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
PGS-1000#Ir1	test	The PGS shall provide error logging subroutines for use by Standard Product software in notifying users of conditions requiring their attention.	B03.03.01 B03.03.02 B03.03.03 B03.04.01 B03.05.01 B03.06.01 B03.06.02 B03.06.03 B03.06.04 B03.06.05 B03.06.06 B03.06.07 B03.06.08 B03.06.09 B03.06.10 B03.08.01 B03.08.02 TS001.003	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
PGS-1010#Ir1	test	The PGS shall provide mass storage allocation subroutines that provide algorithms with a means for dynamic allocation of storage for temporary files.	B03.06.01	Verified
PGS-1015#Ir1	test	The PGS shall provide ancillary data access subroutines that provide Standard Product software access to ephemeris data (e.g., solar, lunar, and satellite ephemeris), Earth rotation data, and time and position measurement data. These subroutines shall perform operations such as: a. Interpolation b. Extrapolation c. Coordinate system conversion	T03-01.08.01 T03-01.08.03 T03-01.09.01 T03-01.09.02 T03-01.09.03 TS001.002 TS001.003	Verified Verified Verified Verified Verified Verified Verified
PGS-1020#Ir1	test	The PGS shall provide mathematical libraries including: a. Linear algebra and analysis (e.g., LINPAC, IMSL) b. Statistical calculations (e.g., SAS, SPSS)	T03-01.08.01 T03-01.08.02 T03-01.08.03	Verified Verified Verified
PGS-1025#Ir1	test	The PGS shall provide a Science Processing Library containing routines such as: a. Image processing routines b. Data visualization routines c. Graphics routines	B03.12.03	Verified
PGS-1030#Ir1	test	The PGS shall provide a toolkit to the SCF containing versions of the routines specified in requirements PGS-0970 to PGS-1020.	T03-01.08.01 T03-01.08.02 T03-01.08.03	Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
PGS-1220#Ir1	test	The PGS shall have the capability to receive GFE databases and associated tools, including COTS and public domain databases, and maintain them as required as inputs to product generation: Example databases are: a. Digital terrain map databases b. Land/sea databases c. Climatology databases d. Digital political map databases	T03-01.06.01	Verified
PGS-1315#Ir1	test	Each PGS shall have the capacity to support I/O to temporary and intermediate storage or multiple passes over input products as required by individual science algorithms.	B03.13.03 B03.14.02	Verified Verified
SCF-0001#Ir1	inspection	The SCF interface platform shall adhere to requirements specified in the Data Production Software and SCF Standards and Guidelines, GSFC 423-16-01. This standards document includes SCF requirements for operating system, computer communications, e-mail protocol, and windowing protocol.	TC017.001	Verified
SCF-0010#Ir1	inspection	The SCF interface shall consist of an ESDIS approved computing platform that shall have a C compiler. To access FORTRAN routines in the ECS Toolkits, the platform shall also have a FORTRAN compiler.	TC017.001	Verified
SCF-0030#Ir1	inspection	The SCF interface platform shall have adequate computing resources for the storage, compilation, linking, and execution of ECS supplied software resident on the platform.	TC017.001	Verified
SCF-0040#Ir1	demo	The ECS shall have the capability to send to the SCFs the Data Production software Specification Requirements describing what is required for completing the Initial Production Software Specifications.	TC009.001 TC009.003 TC009.004	Verified Verified Verified
SCF-0050#Ir1	demo	The ECS shall have the capability to accept from the SCF a set of Initial Data Production Software Specifications that provides the software design description and operations concepts of the data production software to be delivered and estimates storage and processing resources required for the data production software to operate successfully in the ECS operational environment. These specifications are described in the Data Production Software Specification Requirements.	TC009.001 TC009.003 TC009.004	Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
SCF-0060#Ir1	test	The ECS shall have the capability to provide to the SCF the Toolkit Delivery and Update Package. This package includes the PGS toolkit which supplies tools for the emulation of the ECS production environment and contains a ECS-standardized software routines to aid in science data production software development.	TC009.001 TC009.004	Verified Verified
SCF-0070#Ir1	demo	The ECS shall have the capability to provide Integration and Test Specifications to the scientist at the SCF. These specifications are defined by the Data Processing Focus Team. These specifications are implemented in the Data Production Software Delivery Package and support smooth integration of the data production software into the ECS production environme	TC009.001 TC009.004	Verified Verified
SCF-0080#Ir1	demo	The ECS shall have the capability to provide an Interactive Session Dialog with the SCF. This dialog, to aid integration and test of the data production software into the ECS production environment, shall support, at a minimum, general communications between the ECS and the SCF that include logins, mail messages, status reports, test coordination, test execution scripts, and solutions to minor problems.	BS001.005	Verified
SCF-0100#Ir1	demo	The ECS shall have the capability to forward Test Products to the SCF. These products generated by the science software at the ECS will require the review of the scientist at the SCF who submitted the software.	TC009.001 TC009.003 TC009.004	Verified Verified Verified
SCF-0110#Ir1	demo	The ECS shall have the capability to receive Test Product Reviews from the SCF. These reviews shall include the comments and recommendations of the scientist at the SCF who has reviewed the Test Products.	TC009.001 TC009.003 TC009.004	Verified Verified Verified
SCF-0120#Ir1	demo	The ECS shall have the capability to receive Data Production Software Updates from the SCF. These Data Production Software Updates include modifications to any data production software already submitted to the ECS by the SCF. The Data Production Software Updates may include some or all the items required in the Data Production Software Delivery Package.	TC009.001 TC009.003 TC009.004	Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
SCF-0330#Ir1	demo	The ECS shall have the capability to receive a Calibration Coefficient Update Package from the SCF. This package shall include a calibration coefficient file and other documentation needed to implement the updated coefficients.	TC009.001 TC009.003 TC009.004	Verified Verified Verified
SDPS0010#Ir1	test	The SDPS shall provide CSMS with operational, and data processing, data quality status.	BS001.003 BS002.001	Verified Verified
SDPS0020#Ir1	test	The SDPS shall receive EOS science, and engineering data from the SDPF, and non-EOS ancillary data (as listed in Appendix C) from ADCs.	TS004.005 BS002.001 BS002.005	Verified Verified Verified
SDPS0080#Ir1	test	The SDPS shall quality check all science data received from the EPDSs and ancillary data received from the ADCs.	BS002.001 BS002.002 BS002.005	Verified Verified Verified
SDPS0090#Ir1	inspection	The SDPS shall interface with the PIs and the other science users to support the development and testing of data product algorithms and QA of produced data products.	TS002.014	Verified
SDPS0110#Ir1	test	The SDPS shall be responsible for coordination of the transfer of production and quick-look science and engineering data from SDPF.	TS004.005 TS005.001 TS005.003 BS002.001 BS002.003	Verified Verified Verified Verified Verified
SMC-2505#Ir1	Inspection	The LSM shall update the system-wide inventory database consisting of all hardware, system software, and scientific software contained within its element.	TC017.001	Verified
SMC-2510#Ir1	analysis	The SMC shall provide at a minimum system-wide configuration management for the operational hardware, scientific and system software, and the SMC toolkit contained within ECS.	T03-01.01.01 T03-01.02.01 T03-01.04.01 T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05 T03-01.05.06	Verified Verified Verified Verified Verified Verified Verified Verified Verified
SMC-2515#Ir1	test	The LSM shall provide configuration management for at least the operational hardware, system software, and scientific software within its element and for the migration of enhancements into the operational system.	T03-01.01.01 T03-01.02.01 T03-01.04.02 T03-01.05.01 T03-01.05.02 T03-01.05.03 T03-01.05.04 T03-01.05.05 T03-01.05.06	Verified Verified Verified Verified Verified Verified Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
SMC-3300#Ir1	demo	The SMC shall monitor site and element hardware, and scientific and system software status to determine their operational states including, at a minimum: a. On-line b. Failed	B03.07.01 B03.07.02 B03.07.03 B03.07.04 B03.11.01 B03.11.02 B03.11.03 B03.11.04 T04-01.01.06 T04-01.01.12 T04-01.01.18 T04-01.01.20 TC014.001 TC014.002	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
SMC-3305#Ir1	test	The LSM shall monitor its element's hardware, and scientific and system software status to determine their operational states including, at a minimum : a. On-line b. Failed	B03.07.01 B03.07.02 B03.07.03 B03.07.04 B03.11.01 B03.11.02 B03.11.03 B03.11.04 T04-01.01.06 T04-01.01.12 T04-01.01.18 T04-01.01.20 TC014.001 TC014.002	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
SMC-3370#Ir1	test	For each performance parameter, the SMC shall have the capability of establishing multiple levels of thresholds to include, at a minimum: a. On/off b. Pass/fail c. Various levels of degradation	TC013.005	Verified
SMC-3375#Ir1	test	For each limit checked parameter, the LSM (including those thresholds directed by the SMC) shall have the capability of evaluating multiple levels of thresholds including, at a minimum: a. On/off b. Pass/fail	TC013.005	Verified
SMC-3380#Ir1	analysis	The SMC shall evaluate overall system performance.	T04-01.02.01 T04-01.02.02	Verified Verified
SMC-3390#Ir1	test	The SMC shall generate alert indicators of fault or degraded conditions.	TC014.002	Verified
SMC-3395#Ir1	test	The LSM shall generate, in response to each limit check threshold, alert indicators of fault or degraded conditions with the appropriate corrective actions.	T04-01.02.01 T04-01.02.02	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
SMC-3415#Ir1	test	The LSM shall perform short and long-term trend analysis of element performance, including, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	T04-01.02.01 T04-01.02.02	Verified Verified
SMC-4305#Ir1	Inspection	The LSM shall maintain fault management policies and procedures for its element.	T04-01.02.03	Verified
SMC-4310#Ir1	analysis	The SMC shall perform fault analysis including, at a minimum: a. Isolation b. Location c. Identification d. Characterization	B03.07.01 B03.07.02 B03.07.03 B03.07.04	Verified Verified Verified Verified
SMC-4311#Ir1	demo	The SMC shall have the capability to perform fault analysis to the level of, at a minimum: a. Subsystem b. Equipment	B03.07.01 B03.07.02 B03.07.03 B03.07.04	Verified Verified Verified Verified
SMC-4315#Ir1	test	The LSM shall, at a minimum, isolate, locate, and identify faults, identify subsystem, equipment, and software faults, and identify the nature of the faults within its element.	B03.07.01 B03.07.02 B03.07.03 B03.07.04	Verified Verified Verified Verified
SMC-4320#Ir1	demo	SMC shall support fault diagnosis testing to include, at a minimum: b. Resource-to-resource connectivity testing	T04-01.02.01 T04-01.02.02	Verified Verified
SMC-4325#Ir1	demo	The LSM shall request fault diagnosis testing be performed, including, at a minimum: b. Resource-to-resource connectivity testing within its element	T04-01.02.01 T04-01.02.02	Verified Verified
SMC-5320#Ir1	test	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	TS004.001 TS004.002 TS004.003 TS004.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified Verified
SMC-5325#Ir1	test	The LSM shall promulgate, maintain, authenticate, and monitor user and device accesses and privileges.	TC003.001 TC003.002	Verified Verified
SMC-5330#Ir1	test	The SMC shall provide support, manage, maintain, and request security testing that includes, at a minimum, password checking.	TC003.001 TC003.002	Verified Verified
SMC-5335#Ir1	test	The LSM shall perform security testing that includes, at a minimum, password auditing and element internal access/privileges checking.	TC003.001 TC003.002	Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
SMC-5365#Ir1	analysis	The LSM shall generate recovery actions in response to the detection of compromises.	TC003.002	Verified
SMC-8840#Ir1	test	The SMC shall have the capability to generate detailed and summary reports indicating the performance of ground resources, including, at a minimum: c. Resource utilization	T04-01.02.01 T04-01.02.02	Verified Verified
SMC-8880#Ir1	test	The SMC shall have the capability to generate detailed and summary security compromise reports indicating security compromises of ground resources and facilities, including, at a minimum: a. Security compromise type and description b. Time of occurrence	T04-01.02.01 T04-01.02.02	Verified Verified
TRMM1010#Ir1	test	The ECS LaRC DAAC shall ingest CERES data from SDPF.	TS004.005 TS005.001 TS005.003 BS002.001	Verified Verified Verified Verified
TRMM1020#Ir1	test	The SDPF to the ECS LaRC DAAC data stream shall include Level 0 and quick-look data sets.	TS005.001 TS005.003	Verified Verified
TRMM1030#Ir1	test	The SDPF Level 0 and quick-look data sets for CERES shall contain quality and accounting information.	TS005.001 TS005.003	Verified Verified
TRMM1060#Ir1	test	The ECS LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production by an agreed-upon file transfer protocol.	TS005.001 TS005.003 BS002.001	Verified Verified Verified
TRMM1080#Ir1	test	The ECS LaRC DAAC shall acknowledge successful receipt of a CERES data set from the SDPF.	BS002.003	Verified
TRMM1200#Ir1	test	The ECS LaRC DAAC shall ingest predicted orbit data from the SDPF.	TS004.005 TS005.003 BS002.001	Verified Verified Verified
TRMM1210#Ir1	test	The ECS LaRC DAAC shall ingest definitive orbit data from the SDPF.	TS004.005 TS005.003 BS002.001	Verified Verified Verified
TRMM1230#Ir1	inspection	The CERES instrument team and science team shall define the ancillary, correlative, and flight dynamics data and algorithms needed for their processing.	TC017.001	Verified
TRMM1240#Ir1	inspection	The CERES instrument team and science team shall provide the quick-look data processing algorithms and quick-look operations concept needed for CERES.	TC017.001	Verified
TRMM1280#Ir1	test	ECS shall be able to accept CERES simulated data from SDPF.	TS004.005 TS005.001 TS005.003 BS002.001	Verified Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
TRMM1290#Ir1	inspection	The interfaces between TRMM and ECS shall make appropriate use of standards for data structures and data transport as defined for use within the publications of CCSDS and ISO/OSI, and shall use commercial off-the-shelf (COTS) hardware and software products as appropriate.	TS005.003 BS002.001 BS002.003	Verified Verified Verified
TRMM2010#Ir1	test	The ECS MSFC DAAC shall ingest LIS data from SDPF.	TS004.005 TS005.001 TS005.003 BS002.001	Verified Verified Verified Verified
TRMM2020#Ir1	test	The SDPF to the ECS MSFC DAAC data stream shall include Level 0 and quick-look data sets.	TS005.001 TS005.003 BS002.001	Verified Verified Verified
TRMM2030#Ir1	test	The SDPF Level 0 and quick-look data sets for LIS shall contain quality and accounting information.	TS005.001 TS005.003	Verified Verified
TRMM2190#Ir1	test	The ECS MSFC DAAC shall ingest predicted orbit data from the SDPF.	TS004.005 TS005.003 BS002.001	Verified Verified Verified
TRMM2200#Ir1	test	ECS MSFC DAAC shall ingest definitive orbit data from the SDPF.	TS005.003 BS002.001 TS004.005	Verified Verified Verified
TRMM2220#Ir1	inspection	The LIS science team and instrument team shall define the ancillary, correlative, and flight dynamics data and algorithms needed for their processing.	TC017.001	Verified
TRMM2230#Ir1	inspection	The LIS instrument team and science team shall provide the quick-look data processing algorithms and quick-look operations concept needed for LIS.	TC017.001	Verified
TRMM2270#Ir1	test	ECS shall be able to accept LIS simulated data from SDPF.	TS004.005 TS005.001 TS005.003 BS002.001	Verified Verified Verified Verified
TRMM2280#Ir1	inspection	The interfaces between TRMM and ECS shall make appropriate use of standards for data structures and data transport as defined for use within the publications of CCSDS and ISO/OSI, and shall use COTS hardware and software products as appropriate.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified Verified
TRMM3010#Ir1	test	The ECS MSFC DAAC shall ingest Level 1A data for PR and TMI from TSDIS.	TS004.006 TS005.002 TS005.004 BS002.002	Verified Verified Verified Verified
TRMM3020#Ir1	test	The ECS MSFC DAAC shall ingest TRMM standard products (Level 1B-3B) for PR, and TMI from TSDIS.	TS004.006 TS005.004 BS002.002	Verified Verified Verified
TRMM3030#Ir1	test	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.	TS004.006 TS005.004 BS002.002	Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
TRMM3040#Ir1	test	The ECS MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.	TS004.006 TS005.004 BS002.002	Verified Verified Verified
TRMM3050#Ir1	test	The ECS MSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.	TS004.006 TS005.004 BS002.002	Verified Verified Verified
TRMM3100#Ir1	test	ECS shall make daily deliveries of an average of 2-days worth of archived TRMM PR, TM1, GV, and SSM/I ancillary data to TSDIS for the purpose of reprocessing by TSDIS.	TS006.002 TS006.003 TS006.004	Verified Verified Verified
TRMM3120#Ir1	demo	Communications between TSDIS and the ECS MSFC DAAC to transport the PR, TMI, and GV Level 1A data, Level 1B-3B standard products, metadata, SSM/I ancillary data, algorithms, and documentation shall be provided by ESDIS.	TS005.002 TS005.004 BS002.002 BS002.005	Verified Verified Verified Verified
TRMM3140#Ir1	inspection	The interfaces between TRMM and ECS shall make appropriate use of standards for data structures and data transport as defined for use within the publications of CCSDS and ISO/OSI, and shall use COTS hardware and software products as appropriate.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified Verified
TRMM4010#Ir1	test	The ECS GSFC DAAC shall ingest Level 1A data for VIRS from TSDIS.	TS004.006 TS005.002 TS005.004 BS002.002	Verified Verified Verified Verified
TRMM4020#Ir1	test	The ECS GSFC DAAC shall ingest TRMM standard products Level 1B-3B for VIRS from TSDIS.	TS004.006 TS005.004 BS002.002	Verified Verified Verified
TRMM4030#Ir1	test	The ECS GSFC DAAC shall ingest TRMM browse products for VIRS from TSDIS.	TS004.006 TS005.004 BS002.002	Verified Verified Verified
TRMM4040#Ir1	test	The ECS GSFC DAAC shall ingest from TSDIS algorithms and documentation for VIRS.	TS004.006 TS004.008 TS005.004 BS002.002 BS002.004	Verified Verified Verified Verified Verified
TRMM4090#Ir1	test	ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VITS, GOES, Precipitation Index (GPI), and National Meteorological Center (NMC) ancillary data to TSDIS for the purpose of reprocessing by TSDIS.	TS006.002 TS006.003 TS006.004	Verified Verified Verified

Req't_ID	Verif_Method	Text	Test_ID	Status
TRMM4110#Ir1	demo	Communications between TSDIS and the ECS GSFC DAAC to transport the VIRS Level 1A data, Level 1B-3B standard products, metadata, AVHRR, GPI, GPCP, and NMC ancillary data, and algorithms and documentation shall be provided by ESDIS.	TS005.002 TS005.004 BS002.002 BS002.005	Verified Verified Verified Verified
TRMM4120#Ir1	test	TSDIS and ECS shall each provide an interface to the GSFC local area network.	TS005.002	Verified
TRMM4140#Ir1	inspection	The interfaces between TRMM and ECS shall make appropriate use of standards for data structures and data transport as defined for use within the publications of CCSDS and ISO/OSI, and shall use COTS hardware and software products as appropriate.	TS005.001 TS005.002 TS005.003 TS005.004 BS002.001 BS002.002	Verified Verified Verified Verified Verified Verified
TRMM5010#Ir1	test	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.	TS004.006 TS005.004 BS002.002	Verified Verified Verified
TRMM5030#Ir1	test	ECS shall have the capability to ingest directory and guide information from TSDIS.	TS005.002 TS005.004 BS002.002	Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.1.2	TC003.001	C-MSS-70130 C-MSS-70300 C-CSS-00500 C-CSS-63000 C-CSS-63010 C-CSS-63020 C-CSS-63040 SMC-5325#Ir1 SMC-5330#Ir1 SMC-5335#Ir1 ESN-0010#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.1.3	TC003.002	C-MSS-70120 SMC-5325#Ir1 SMC-5330#Ir1 SMC-5335#Ir1 SMC-5365#Ir1 ESN-0010#Ir1	Verified Verified Verified Verified Verified Verified
4.1.4	TC003.003	C-MSS-70120 C-MSS-70300	Verified Verified
4.1.5	TC003.004	C-MSS-70120 C-MSS-70300	Verified Verified
4.1.6	TC003.005	C-CSS-21000 C-CSS-21020 C-CSS-21030 C-CSS-21100 C-MSS-70010 C-MSS-70020 C-MSS-70100 C-MSS-70120 C-MSS-70130 C-MSS-70300 C-MSS-70700	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.1.7	TC003.006	C-MSS-70120	Verified
4.1.8	TC003.007	ESN-0010#Ir1	Verified
4.1.9	TC003.008	ESN-0010#Ir1	Verified
4.1.10	B01.01.01	EOSD0500#Ir1 ESN-0003#Ir1 ESN-0010#Ir1 ESN-0370#Ir1	Verified Verified Verified Verified
4.1.11	B01.01.02	EOSD0500#Ir1 ESN-0003#Ir1 ESN-0006#Ir1 ESN-0010#Ir1 ESN-0370#Ir1	Verified Verified Verified Verified Verified
4.1.12	B01.01.03	EOSD0500#Ir1 ESN-0003#Ir1 ESN-0006#Ir1 ESN-0010#Ir1 ESN-0370#Ir1	Verified Verified Verified Verified Verified
4.1.13	TC011.001	C-CSS-00500	Verified
4.1.14	TC011.002	C-CSS-00500	Verified
4.1.15	B01.02.01	ESN-0010#Ir1	Verified
4.1.16	B01.02.02	ESN-0010#Ir1	Verified
4.1.17	T01-02.02.01	ESN-0003#Ir1	Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.1.18	BC002.001	no explicit requirements - basic demo of gateway interface	
4.2.1	TS002.014	SDPS-0090#Ir1	Verified
4.2.2	BC012.004	C-CSS-62010 C-CSS-62030 C-CSS-62040 C-CSS-62100 C-CSS-62120 C-CSS-62300 C-CSS-62305 C-CSS-62310 C-CSS-62320 C-CSS-62330 C-CSS-62340 C-CSS-62350 C-CSS-62360 C-CSS-62380	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.3	TC006.002	C-CSS-61040 C-CSS-61050 C-CSS-61060 S-DPS-42710 ESN-0010#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified
4.2.4	TC010.001	C-CSS-61040 C-CSS-61050 C-CSS-61060 C-ISS-01080	Verified Verified Verified Verified
4.2.5	T01-02.05.01	C-CSS-61040 C-CSS-61050 C-CSS-61060 ESN-1170#Ir1	Verified Verified Verified Verified
4.2.6	T01-02.05.02	C-CSS-61040 C-CSS-61050 C-CSS-61060 ESN-1170#Ir1	Verified Verified Verified Verified
4.2.7	TC010.002	C-CSS-61040 C-CSS-61050 C-CSS-61060	Verified Verified Verified
4.2.8	T01-02.05.04	C-CSS-61040 C-CSS-61050 C-CSS-61060 ESN-1170#Ir1	Verified Verified Verified Verified
4.2.9	TC010.003	C-CSS-61040 C-CSS-61050 C-CSS-61060 C-ISS-01010	Verified Verified Verified Verified
4.2.10	T01-02.05.05	C-CSS-61040 C-CSS-61050 C-CSS-61060 ESN-1170#Ir1	Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.2.11	TC006.001	C-CSS-61040 C-CSS-61050 C-CSS-61060	Verified Verified Verified
4.2.12	B01.05.01	C-CSS-61040 C-CSS-61050 C-CSS-61060	Verified Verified Verified
4.2.13	B01.05.02	C-CSS-61040 C-CSS-61050 C-CSS-61060	Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.2.14	TC009.001	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1 SCF-0040#Ir1 SCF-0050#Ir1 SCF-0060#Ir1 SCF-0070#Ir1 SCF-0100#Ir1 SCF-0110#Ir1 SCF-0120#Ir1 SCF-0330#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.15	T01-02.04.01	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-0010#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.16	T01-02.04.02	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.2.17	T01-02.04.03	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.18	T01-02.04.04	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.19	T01-02.04.05	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.20	T01-02.04.06	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.2.21	T01-02.04.07	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.22	T01-02.04.08	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.23	TC009.003	C-CSS-60650 ESN-1170#Ir1 SCF-0040#Ir1 SCF-0050#Ir1 SCF-0100#Ir1 SCF-0110#Ir1 SCF-0120#Ir1 SCF-0330#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified
4.2.24	TC009.004	C-CSS-00500 C-CSS-60610 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1 SCF-0040#Ir1 SCF-0050#Ir1 SCF-0060#Ir1 SCF-0070#Ir1 SCF-0100#Ir1 SCF-0110#Ir1 SCF-0120#Ir1 SCF-0330#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.2.25	BC002.003	C-ISS-02010	Verified
4.2.26	B01.07.01	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.27	B01.07.02	C-CSS-60500 C-CSS-60510 C-CSS-60520 C-CSS-60600 C-CSS-60610 C-CSS-60620 C-CSS-60630 C-CSS-60640 ESN-0280#Ir1 ESN-0290#Ir1 ESN-1170#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.2.28	T01-02.05.07	ESN-0003#Ir1 ESN-1180#Ir1 ESN-1340#Ir1 PGS-0430#Ir1	Verified Verified Verified Verified
4.3.1	TC004.001	No Explicit Requirements - Basic Demo of DCE DNS	
4.3.2	TC004.002	No Explicit Requirements - Basic Demo of DCE DNS	

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.3.16	TC014.005	C-MSS-20040 C-MSS-60600 C-MSS-66030 C-MSS-66040 C-MSS-66050 C-MSS-66060 C-MSS-66080 C-MSS-66100 C-MSS-66170 C-MSS-68100 ESN-0650#Ir1 ESN-0740#Ir1 ESN-0760#Ir1 ESN-1060#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.3.17	TC014.006	C-MSS-12120 C-MSS-16030 C-MSS-16040 C-MSS-36010 C-MSS-36020 C-MSS-36040 C-MSS-36050 C-MSS-36060 C-MSS-36070	Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.3.18	TS002.011	S-DPS-21400 S-DPS-41400 S-DPS-41410	Verified Verified Verified
4.3.19	BC016.003	S-DPS-41400 S-DPS-41410	Verified Verified
4.3.20	T04-01.01.06	S-DPS-21400 SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified Verified
4.3.21	T04-01.01.09	C-MSS-66000	Verified
4.3.22	T04-01.01.12	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified
4.3.23	T04-01.01.18	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified
4.3.24	T04-01.01.20	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.3.25	T04-01.02.03	SMC-4305#Ir1	Verified
4.3.26	T04-01.05.01	EOSD1703#Ir1	Verified
4.3.27	T04-01.05.02	EOSD3200#Ir1	Verified
4.4.1	BC008.001	No Explicit Requirements - Basic Demo of DCE DNS	
4.4.2	BC002.004	C-MSS-12080 C-MSS-16040 C-MSS-16070 C-MSS-60110 C-MSS-60130 C-MSS-60140 C-MSS-60150 C-MSS-60170 C-MSS-60200 C-MSS-60310 C-MSS-60340	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.4.3	T04-01.02.01	SMC-3380#Ir1 SMC-3395#Ir1 SMC-3415#Ir1 SMC-4320#Ir1 SMC-4325#Ir1 SMC-8840#Ir1 SMC-8880#Ir1	Verified Verified Verified Verified Verified Verified Verified
4.4.4	T04-01.02.02	SMC-3380#Ir1 SMC-3395#Ir1 SMC-3415#Ir1 SMC-4320#Ir1 SMC-4325#Ir1 SMC-8840#Ir1 SMC-8880#Ir1	Verified Verified Verified Verified Verified Verified Verified
4.4.5	T01-02.02.02	ESN-0003#Ir1	Verified
4.4.6	T01-02.02.03	ESN-0003#Ir1	Verified
4.4.7	T01-02.02.04	ESN-0003#Ir1	Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.4.8	BC002.002	C-CSS-00040 C-ISS-01000 C-ISS-02000 C-ISS-02010 C-ISS-02020 C-ISS-02030 C-ISS-02050 C-ISS-02060 C-ISS-02520 C-ISS-02530	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.5.1	TS002.002	S-DPS-40100 S-DPS-40110 C-MSS-91020 C-ISS-01020	Verified Verified Verified Verified
4.5.2	TS002.003	S-DPS-40210 S-DPS-40320 S-DPS-40340	Verified Verified Verified
4.5.3	TS002.004	S-DPS-40230 S-DPS-40340	Verified Verified
4.5.4	TS002.005	S-DPS-40200 S-DPS-40320 S-DPS-61173 S-DPS-40260 S-DPS-40295 S-DPS-61174	Verified Verified Verified Verified Verified Verified
4.5.5	TS002.006	S-DPS-40250 S-DPS-40320	Verified Verified
4.5.6	TS002.007	S-DPS-40280	Verified
4.5.7	TS002.010	S-DPS-40910 S-DPS-40920 S-DPS-40930 S-DPS-40940	Verified Verified Verified Verified
4.5.8	TS002.012	C-MSS-91020 S-DPS-41500 S-DPS-41510 S-DPS-41520 S-DPS-41530 S-DPS-42740 S-DPS-42750 S-DPS-42760	Verified Verified Verified Verified Verified Verified Verified Verified
4.5.9	TS002.015	S-DPS-42000 S-DPS-42010	Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.5.10	TS002.016	S-DPS-41000 S-DPS-41005 S-DPS-41010 S-DPS-41015 S-DPS-41020 S-DPS-41030 S-DPS-41035 S-DPS-41040 S-DPS-70270 S-DPS-70280 S-DPS-41050	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.5.11	T03-01.05.01	C-MSS-40400 C-MSS-40410 C-MSS-40420 C-MSS-40510 C-MSS-40520 C-MSS-40470 C-MSS-40480 C-MSS-40490 C-MSS-40570 C-MSS-40990 C-MSS-40995 PGS-0640#Ir1 PGS-0950#Ir1 SMC-2510#Ir1 SMC-2515#Ir1 DADS0190#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.5.12	T03-01.05.02	C-MSS-40400 C-MSS-40410 C-MSS-40420 C-MSS-40510 C-MSS-40520 C-MSS-40570 C-MSS-40990 C-MSS-40995 C-MSS-40470 C-MSS-40480 C-MSS-40490 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.5.13	T03-01.05.03	C-MSS-40400 C-MSS-40410 C-MSS-40420 C-MSS-40470 C-MSS-40470 C-MSS-40480 C-MSS-40510 C-MSS-40520 C-MSS-40560 C-MSS-40570 C-MSS-40990 C-MSS-40995 C-MSS-40490 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.5.14	T03-01.05.04	C-MSS-40400 C-MSS-40410 C-MSS-40420 C-MSS-40510 C-MSS-40520 C-MSS-40470 C-MSS-40480 C-MSS-40490 C-MSS-40570 C-MSS-40990 C-MSS-40995 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.5.15	T03-01.05.05	C-MSS-40400 C-MSS-40410 C-MSS-40420 C-MSS-40510 C-MSS-40520 C-MSS-40470 C-MSS-40480 C-MSS-40490 C-MSS-40500 C-MSS-40550 C-MSS-40560 C-MSS-40570 C-MSS-40990 C-MSS-40995 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.5.16	T03-01.05.06	C-MSS-4040 C-MSS-40470 C-MSS-40480 C-MSS-40490 PGS-0640#Ir1 PGS-0950#Ir1 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified
4.5.17	T03-01.06.01	C-MSS-40400 C-MSS-40470 C-MSS-40480 PGS-1220#Ir1	Verified Verified Verified Verified
4.5.18	T03-01.08.01	EOSD0502#Ir1 PGS-0920#Ir1 PGS-1015#Ir1 PGS-1020#Ir1 PGS-1030#Ir1	Verified Verified Verified Verified Verified
4.5.19	T03-01.08.02	EOSD0502#Ir1 PGS-1020#Ir1 PGS-1030#Ir1	Verified Verified Verified
4.5.20	T03-01.08.03	EOSD0502#Ir1 PGS-0920#Ir1 PGS-1015#Ir1 PGS-1020#Ir1 PGS-1030#Ir1	Verified Verified Verified Verified Verified
4.6.1	TS001.001	PGS-0920#Ir1 PGS-0925#Ir1	Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.6.2	TS001.002	PGS-0920#Ir1 PGS-0925#Ir1 PGS-0940#Ir1 PGS-1015#Ir1 EOSD0502#Ir1 PGS-0970#Ir1	Verified Verified Verified Verified Verified Verified
4.6.3	TS001.003	PGS-0920#Ir1 PGS-0925#Ir1 PGS-1015#Ir1 PGS-0970#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.6.4	B03.04.01	S-DPS-40400 S-DPS-40405 S-DPS-40430 EOSD0502#Ir1 PGS-0920#Ir1 PGS-0925#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified Verified
4.6.5	B03.04.02		Deleted
4.6.6	B03.05.01	S-DPS-40400 S-DPS-40405 S-DPS-40430 EOSD0502#Ir1 PGS-0920#Ir1 PGS-0925#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified Verified
4.6.7	B03.05.02		Deleted
4.6.8	T03-01.07.01	S-DPS-40200 S-DPS-40210	Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.6.9	T03-01.07.02	S-DPS-40200 S-DPS-40210	Verified Verified
4.6.10	T03-01.07.05	S-DPS-40280 S-DPS-40295	Verified Verified
4.6.11	T03-01.07.06	S-DPS-40280 S-DPS-40295	Verified Verified
4.7.1	TS003.008	C-ISS-01020 S-DPS-61170	Verified Verified
4.7.2	TS003.006	S-DPS-61120 S-DPS-61110 S-DPS-61140 S-DPS-61150 S-DPS-61160 S-DPS-61130	Verified Verified Verified Verified Verified Verified
4.7.3	TS003.005	S-DPS-60080 S-DPS-70060 S-INS-60150 S-INS-60190	Verified Verified Verified Verified
4.7.4	TS003.004	S-DPS-60050 S-DPS-60970	Verified Verified
4.7.5	B03.06.02	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0370#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Not Ir1 Verified Verified Verified
4.7.6	B03.06.03	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.7.7	B03.06.04	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.7.8	B03.06.05	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.7.9	B03.06.06	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.7.10	B03.06.07	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.7.11	B03.06.08	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.7.12	B03.06.09	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.7.13	B03.06.10	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0980#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified Verified Verified
4.7.14	B03.07.01	PGS-0360#Ir1 S-DPS-60120 PGS-0370#Ir1 SMC-3300#Ir1 SMC-3305#Ir1 SMC-4310#Ir1 SMC-4311#Ir1 SMC-4315#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified
4.7.15	B03.07.02	PGS-0360#Ir1 SMC-3300#Ir1 SMC-3305#Ir1 SMC-4310#Ir1 SMC-4311#Ir1 SMC-4315#Ir1	Verified Verified Verified Verified Verified Verified
4.7.16	B03.07.03	PGS-0360#Ir1 SMC-3300#Ir1 SMC-3305#Ir1 SMC-4310#Ir1 SMC-4311#Ir1 SMC-4315#Ir1	Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.7.17	B03.06.12	EOSD0500#Ir1 EOSD0502#Ir1 PGS-0360#Ir1 PGS-0370#Ir1 PGS-0980#Ir1 PGS-0400#Ir1	Verified Verified Verified Verified Verified Verified
4.7.18	B03.06.11	EOSD0500#Ir1 PGS-0360#Ir1 PGS-0370#Ir1 PGS-0980#Ir1	Verified Verified Verified Verified
4.8.1	BS001.001	S-DPS-40010 S-DPS-41895 S-DPS-42200 S-DPS-42100 DADS0190#Ir1	Verified Verified Verified Verified Verified
4.8.2	BS001.002	S-DPS-42110 S-DPS-42120 S-DPS-42130 S-DPS-42140 S-DPS-42150 S-DPS-42160 S-DPS-42170 S-DPS-42175 S-DPS-42180 S-DPS-42190 PGS-0920#Ir1 PGS-0620#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.8.3	BS001.003	SDPS-0010 S-DPS-42300 S-DPS-42305 S-DPS-42310 S-DPS-42315 S-DPS-42320 S-DPS-42325 S-DPS-42350 S-DPS-42360 S-DPS-42500 S-DPS-42780 S-DPS-42650 S-DPS-42660	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.8.4	BS001.004	S-DPS-42370 S-DPS-42500 S-DPS-42510 S-DPS-42520 S-DPS-42530 S-DPS-42540 S-DPS-42550 S-DPS-42560 S-DPS-42570 S-DPS-42580 S-DPS-42590 S-DPS-42600 S-DPS-42640 S-DPS-42790	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.8.5	B03.02.01	PGS-0950#Irl	Verified
4.8.6	B03.03.01	PGS-0602#Irl PGS-0650#Irl PGS-1000#Irl	Verified Verified Verified
4.8.7	B03.03.02	PGS-0602#Irl PGS-0650#Irl PGS-1000#Irl	Verified Verified Verified
4.8.8	B03.03.03	PGS-0602#Irl PGS-0620#Irl PGS-1000#Irl	Verified Verified Verified
4.8.9	B03.06.01	EOSD0500#Irl EOSD0502#Irl PGS-0270#Irl PGS-0360#Irl PGS-0370#Irl PGS-0980#Irl PGS-0990#Irl PGS-1000#Irl PGS-1010#Irl S-DPS-42370 S-DPS-42610 S-DPS-42620	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.8.10	B03.07.04	PGS-0360#Ir1 SMC-3300#Ir1 SMC-3305#Ir1 SMC-4310#Ir1 SMC-4311#Ir1 SMC-4315#Ir1	Verified Verified Verified Verified Verified Verified
4.8.11	B03.08.01	PGS-0910#Ir1 PGS-0920#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified
4.8.12	B03.08.02	PGS-0910#Ir1 PGS-0920#Ir1 PGS-0990#Ir1 PGS-1000#Ir1	Verified Verified Verified Verified
4.8.13	B03.09.01	PGS-0900#Ir1 PGS-0910#Ir1	Verified Verified
4.8.14	B03.09.02	PGS-0900#Ir1 PGS-0910#Ir1	Verified Verified
4.8.15	B03.09.03	PGS-0900#Ir1 PGS-0910#Ir1	Verified Verified
4.8.16	B03.12.03	PGS-1025#Ir1	Verified
4.8.17	B03.13.01	C-MSS-91020 EOSD1750#Ir1 EOSD1760#Ir1 PGS-0860#Ir1 S-DPS-42700 S-DPS-42770	Verified Verified Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.8.18	B03.13.02	S-DPS-60610 EOSD1750#Ir1 EOSD1760#Ir1 PGS-0860#Ir1	Verified Verified Verified Verified
4.8.19	B03.14.02	S-DPS-60330 ESN-0070#Ir1 PGS-1315#Ir1	Verified Verified Verified
4.8.20	B03.13.03	S-DPS-60330 PGS-1315#Ir1	Verified Verified
4.8.21	T03-01.01.01	SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified
4.8.22	T03-01.02.01	C-MSS-40540 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified
4.8.23	T03-01.04.02	EOSD1750#Ir1 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified
4.8.24	T03-01.09.01	EOSD0502#Ir1 PGS-0610#Ir1 PGS-1015#Ir1	Verified Verified Verified
4.8.25	T03-01.09.02	EOSD0502#Ir1 PGS-0610#Ir1 PGS-1015#Ir1	Verified Verified Verified
4.8.26	T03-01.09.03	EOSD0502#Ir1 PGS-0610#Ir1 PGS-1015#Ir1	Verified Verified Verified
4.8.27	BS001.005	SCF-0080#Ir1	Verified
4.9.1	TS004.001	C-CSS-21000 S-INS-00030 S-INS-00040 SMC-5320#Ir1	Verified Verified Verified Verified
4.9.2	TS004.003	C-CSS-21000 S-INS-00030 S-INS-00040 SMC-5320#Ir1	Verified Verified Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.9.3	TS004.005	S-INS-00010 DADS0130#Ir1 DADS0170#Ir1 SDPS0020#Ir1 SDPS0110#Ir1 TRMM1010#Ir1 TRMM1200#Ir1 TRMM1210#Ir1 TRMM1280#Ir1 TRMM2010#Ir1 TRMM2190#Ir1 TRMM2200#Ir1 TRMM2270#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.9.4	TS004.007	SDPF does not use the expiration time PVL keyword	
4.9.5	TS005.001	C-CSS-60520 C-ISS-01030 C-ISS-01040 S-INS-00415 S-INS-00520 S-INS-00540 DADS0250#Ir1 EOSD1607#Ir1 NI-0400#Ir1 SDPS0110#Ir1 TRMM1010#Ir1 TRMM1020#Ir1 TRMM1030#Ir1 TRMM1060#Ir1 TRMM1280#Ir1 TRMM2010#Ir1 TRMM2020#Ir1 TRMM2030#Ir1 TRMM2270#Ir1 TRMM2280#Ir1 TRMM3140#Ir1 TRMM4140#Ir1	Verified Verified

Plan_Paragraph_ID	Test_ID	Paragraph_ID	Status
4.12.5	BS002.005	C-CSS-60520 S-INS-00100 S-INS-00415 S-INS-00630 S-INS-00640 S-INS-00620 S-INS-00110 DADS0145#Ir1 DADS0250#Ir1 DADS0260#Ir1 EOSD1710#Ir1 SDPS0020#Ir1 SDPS0080#Ir1 TRMM3120#Ir1 TRMM4110#Ir1	Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified Verified
4.13.1	T03-01.01.01	SMC-2510#Ir1 SMC-2515#Ir1 C-MSS-40540	Verified Verified Verified
4.13.2	T03-01.02.01	SMC-2510#Ir1 SMC-2515#Ir1 C-MSS-40540	Verified Verified Verified
4.13.3	T03-01.04.02	C-MSS-40540 EOSD1750#Ir1 SMC-2510#Ir1 SMC-2515#Ir1	Verified Verified Verified Verified
4.13.4	B03.10.01	PGS-0490#Ir1	Verified
4.13.5	B03.10.02	PGS-0490#Ir1	Verified
4.13.6	B03.10.03	PGS-0490#Ir1	Unverified
4.13.7	B03.10.04	PGS-0490#Ir1	Verified
4.13.8	B03.10.05	PGS-0490#Ir1	Verified
4.13.9	B03.10.06	PGS-0490#Ir1	Verified
4.13.10	B03.10.07	PGS-0490#Ir1	Verified
4.13.11	B03.11.01	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified
4.13.12	B03.11.02	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified
4.13.13	B03.11.03	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified
4.13.14	B03.11.04	SMC-3300#Ir1 SMC-3305#Ir1	Verified Verified

Appendix C. EDF Configuration for Ir-1

This is a working list which was current as of 10/23/95. For the present Ir1 configuration at all sites, refer to the Ir1 Version Description Document (VDD) for the ECS Project (Doc. #: 814-RD-004-001, -002, and -003).

		TYPE
Equipment	AI & T Server 1	PWR Challenge
Host Name	dps1sgiedf -> Alias (scpr)	
IP Addresses	192.150.28.111	
Location	lab	
Running	Yes	
Software		
IRIX 6.1		
Casevision		
DCE Dev kit		
DCE Client		
C		
C++		
F77		
F90(SGI)		
F90(NAG)		
ADA		
Clearcase client		
O/S Patches		
Scheduler Agent		
Sybase Client		
Network (backup S/W)	Eval copy	
IDL (5.3 version now)	ver 4.1 supports IR1 G.1	
IMSL		
Xterm Boot S/W		
Printer S/W		
	BB Server	SUN Sparc 20/50, CD-ROM, 2 GB, 96MB
Host Name	mss2sunedf -> alias (gtwy)	
IP Addresses	192.150.28.112	
Location	lab	
Running	Yes	
Software:		
Solaris 2.4		

C. C patches		
Sparcworks		
C		
C++		
F77		
F90(NAG)		
DCE Client (Needs to be configured)		

		TYPE
Equipment	MSS Server	HP 755/256MB Disk storage 6GB (Hp)
Host Name	mss1hpedf -> Alias (OV)	
IP Address	192.150.28.113	
location	lab	
Running	Yes	
Software:		
HP-UX 9.05		
OpenView		
Clearcase Server (patches)		
# licenses		
Wabi -		
MS Office		
Ghost		
Adobe		
DCE Client		
Printer S/W		
	CSS/Time Server	
Host Name	css1hpedf -> alias (dce)	
IP Address	192.150.28.114	
location	lab	
Running	Yes	
Software:		
HP-UX 9.05		
cc patches		
DCE Client		
DCE Name		

DCE Security		
Printer Software		
	Xterminal	
Host Name	dps2ncdedf -> alias (xtrm)	
IP Address	192.150.28.115	
location	lab	
Running	Yes	

		TYPE
Equipment	AI & T W/S1 Server	SUN Sparc 20/50, 128MB, 2 GB disk
Host Name	dps3sunedf ->alias (Ait1)	
IP Addresses	192.150.28.116	
Location	lab	
Running	Yes	
Software		
Solaris 2.4		
SNMP Agent		
DCE Dev kit		
DCE Client		
Document viewing/ report Generator:		
wabi		
Msoffice		
Mosaic		
Adobe Acrobat		
Ghost View		
Sparcworks		
C		
C++		
F77		
F90(NAG)		
ADA		
IDL (RSI)		
IMSL (visual numeras)		
Clearcase		
Sybase server		

Sybase Client		
Scheduler(autosys)		
Sybase setup		
Printer S/W		
Forcheck		
Equipment	Ingest Server	SGI Indigo2 6GB, SGI CDROM
Host Nmae	ins1sgiedf -> alias(ingest)	
IP Address	192.150.28.117	
location	lab	
Running	Yes	
Software:		
Clearcase client		
IRIX 5.3		
DCE Client		
BX		
Access to C++ from power challenge		
printer S/W		

		TYPE
Equipment	Printer	HP Laser Jet 4M+, 12ppm/14MB RAM
Host Name	mss3hpedef	
IP Addresses	192.150.28.118	
Location	lab	
Running	yes	
	AI & T Server 2 (INDY)	Science Processor, SGI Indy 4 GB, 2GB, 2GB, CDROM
Host Name	dps4sgiedf -> alias (ait2)	
IP Addresses	192.150.28.119	
Location	lab	
Running	yes	
Software:		
IRIX 5.3		
DCE Client		
SNMP		

CaseVision		
C		
C++		
F77		
F90		
Clearcase Client		
O/S Patches		
Schedule (Autosys) Agent		
Sybase Client		
Printer S/W		

Notes:

The EDF IR-1 SUN systems are configured to have a standalone license manager for all the SUN compilers. Rather than include the Ir-1 systems into the EDF whole, the systems were configured to look alike to the DAAC sites.

Both mss2sunedf and dps3sunedf can have access to the following compilers:

- 2 - C compiler licenses
- 2 - C++ compiler licenses
- 2 - F77 compiler licenses
- 2 - SparcWorks licenses
- 1 - Ada compiler license

In general, if you log into mss2sunedf or dps3sunedf , you have access only to the above licenses. There are only 2 C compiler licenses. If more are required, a link can be created to have these systems access the rest of the licenses on the EDF central servers.

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