EDOS (LZPF) to LaRC/GSFC DAAC Interface Confidence Test - ICT3

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive PDSs which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with Production Data Sets (PDSs) and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives:

The objectives of this test are:

- To verify that EDSs can be transferred from EDOS to the DAAC.
- To verify that PDSs can be transferred from EDOS to the DAAC.
- To verify data on physical media from EDOS can be read by the DAAC (Includes archived PDSs and DEDS).
- To verify that EDOS can receive Service Requests from the DAACs.
- To verify that the DAAC can receive Non-Science PDS data.

Test Configuration: See Exhibit 1 for an EDOS To DAAC Interface diagram.

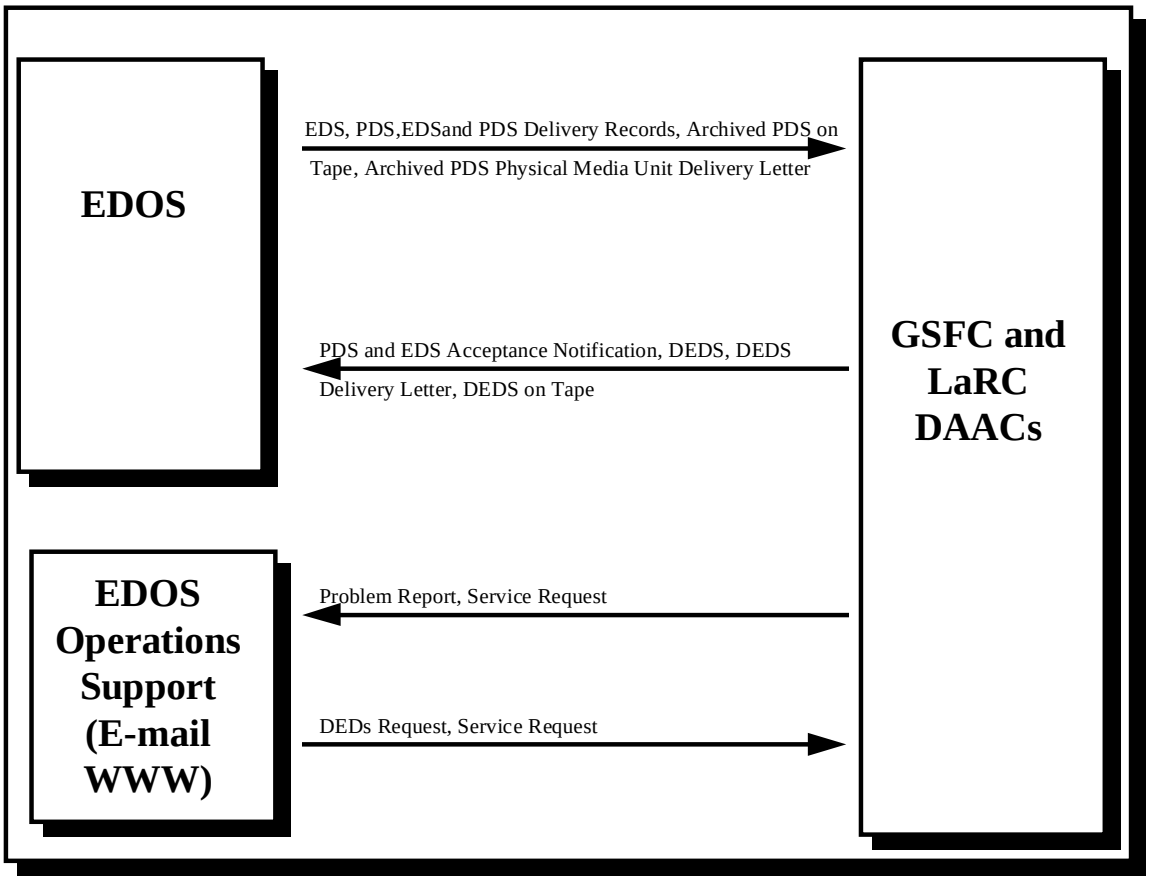

Exhibit 1 - EDOS To DAAC Interface

Reference: Operations Agreement Between the Earth Observing System (EOS) Data and Operations System (EDOS) and the EOS Data and Information System (EOSDIS) Core System (ECS) Science and Data Processing Segment (SDPS)

Participants and Support Requirements:

Participants:

M&O support at the DAACs
EDOS Operator

Communications:

Voice: Telephone

Data: N/A

IP Address: TBS

Equipment and Software:

Hardware: TBS

Software: ETS/EDOS

Test Tools: ETS

Test Data:

Description / Characteristics	Source	File/Script & Location
Expedited Data Set (EDS)	EDOS/ETS	EDOS/TDM
Production Data Set (PDS)	EDOS/ETS	EDOS/TDM
Archived PDSs On Tape	EDOS/ETS	EDOS/TDM
DAAC to EDOS Data Set (DEDS)	EDOS	EDOS/TDM

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.001 **Modified:** 2/12/97 **Description:** Transfer of CERES EDS to LaRC DAAC

This test verifies that CERES Expedited Data Sets can be transferred from EDOS to the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.1.2.1.a
4.1.2.1.b
4.1.2.1.c
4.1.2.1.e
4.1.2.10.b
4.1.2.14
4.1.2.2.a
4.1.2.2.b
4.1.2.7.f
4.1.2.7.g
4.1.2.8.a
4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.10
4.6.1.6
4.6.1.7
EDOS-4.1.2.1#A
EDOS-4.1.2.7#A
EDOS-4.6.1.1#A

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the LaRC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/12/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directory to use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/11/97
2.001	EDOS	Transmit EDS(s) to the LaRC DAAC via KFTP	EDSs will be stored in the LaRC DAAC destination directory.	N/A		2/11/97
2.002	EDOS	Transmit signal file after completion of EDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/11/97
2.003	EDOS	Transmit EDS Delivery Record to the LaRC DAAC after completion of EDS transmission.	Delivery Record will be stored in the LaRC DAAC destination directory	Delivery record file will be saved as .EDR		2/11/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/11/97
2.005	EDOS/ DAAC	Perform comparison of EDS sent from EDOS with EDS received by DAAC	Both EDSs should be identical			2/11/97
3.001	DAAC	Transmit EDS Acceptance Notification to EDOS via KFTP.	Acceptance Notification will be stored in EDOS directory	Filename convention for EDS Acceptance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/	Equipment O	Expected Results /	Evaluation	Comments	Verified Reqs:	Last Modified:

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.002 **Modified:** 2/12/97 **Description:** Transfer of MISR EDS to LaRC DAAC

This test verifies that MISR Expedited Data Sets can be transferred from EDOS to the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.1.2.1.a
4.1.2.1.b
4.1.2.1.c
4.1.2.1.e
4.1.2.10.b
4.1.2.14
4.1.2.2.a
4.1.2.2.b
4.1.2.7.f
4.1.2.7.g
4.1.2.8.a
4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.10
4.6.1.6
4.6.1.7
EDOS-4.1.2.1#A
EDOS-4.1.2.7#A
EDOS-4.6.1.1#A

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the LaRC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/11/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directory to use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit EDS(s) to the LaRC DAAC via KFTP.	EDSs will be stored in the LaRC DAAC destination directory.			2/11/97
2.002	EDOS	Transmit signal file after completion of EDS transmission	Signal file will be stored in the LaRC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit EDS Delivery Record to the LaRC DAAC after completion of EDS transmission	Delivery Record will be stored in the LaRC destination directory	Delivery record file will be saved as .EDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/11/97
2.005	EDOS/ DAAC	Perform comparison of EDS sent from EDOS with EDS received by DAAC	Both EDSs should be identical			2/11/97
3.001	DAAC	Transmit EDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for EDS Acceptance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/	Equipment O	Expected Results /	Evaluation	Comments	Verified Reqs:	Last Modified:

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.003 **Modified:** 2/12/97 **Description:** Transfer of MOPITT EDS to LaRC DAAC

This test verifies that MOPITT Expedited Data Sets can be transferred from EDOS to the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.2.1.1
4.2.3.1
4.2.3.5.a
4.2.3.6.a
4.3.3.4
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.10
4.6.1.6
4.6.1.7
EDOS-4.6.1.1#A
4.1.2.1.a
4.1.2.1.b
4.1.2.1.c
4.1.2.1.e
4.1.2.10.b
4.1.2.14
4.1.2.2.a
4.1.2.2.b
4.1.2.7.f
4.1.2.7.g
4.1.2.8.a

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
						4.2.2.1 EDOS-4.1.2.1#A EDOS-4.1.2.7#A

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	DAAC	Provide the following Security Server information to the LaRC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/12/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directoryto use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit EDS(s) to the LaRC DAAC via KFTP	EDSs will be stored in the LaRC DAAC destination directory.	EDSs will be stored using the following file naming convention: <Filename>.EDS		2/12/97
2.002	EDOS	Transmit signal file after completion of transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit EDS Delivery Record to the LaRC DAAC after completion of EDS transmission.	Delivery Record will be stored in the LaRC DAAC destination directory	Delivery record file will be saved as .EDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comaprison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/12/97
2.005	EDOS/ DAAC	Perform comaprison of EDS sent from EDOS with EDS received by DAAC	Both EDSs should be identical			2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Transmit EDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for EDS Acceptance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.004 **Modified:** 2/12/97 **Description:** Transfer of MODIS EDS to GSFC DAAC

This test verifies that MODIS Expedited Data Sets can be transferred from EDOS to the GSFC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.10
4.6.1.6
4.6.1.7
EDOS-4.6.1.1#A
4.1.3.1.c
4.1.3.10.b
4.1.3.14
4.1.3.2.a
4.1.3.2.b
4.1.3.7.g
4.1.3.7.h
4.1.3.8.b
EDOS-4.1.3.1#A
EDOS-4.1.3.7#A

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the GSFC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/11/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request		2/10/97
1.003	DAAC	Obtain listing of DAAC destination directoryto use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit EDS(s) to the GSFC DAAC via KFTP.	EDSs will be stored in the GSFC DAAC destination directory.	N/A		2/11/97
2.002	EDOS	Transmit signal file at completion of EDS transmission	Signal file will be stored in the GSFC DAAC destination directory.	Signal file will have same name as data file with a .xfr extension		2/11/97
2.003	EDOS	Transmit EDS Delivery Record to the GSFC DAAC after completion of EDS transmission	Delivery Record will be stored in the GSFC DAAC destination directory.	Delivery record file will be saved as .EDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/11/97
2.005	EDOS/ DAAC	Perform comparison on EDS sent from EDOS with EDS received by DAAC	Both EDSs should be identical			2/11/97
3.001	DAAC	Transmit EDS Acceptance Notification to EDOS via KFTP.	Acceptance Notification will be stored in EDOS directory	File name convention for EDS Acceptance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.004 **Modified:** 2/12/97 **Description:** Transfer of MODIS EDS to GSFC DAAC

This test verifies that MODIS Expedited Data Sets can be transferred from EDOS to the GSFC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.10
4.6.1.6
4.6.1.7
EDOS-4.6.1.1#A
4.1.3.1.c
4.1.3.10.b
4.1.3.14
4.1.3.2.a
4.1.3.2.b
4.1.3.7.g
4.1.3.7.h
4.1.3.8.b
EDOS-4.1.3.1#A
EDOS-4.1.3.7#A

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the GSFC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/11/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request		2/10/97
1.003	DAAC	Obtain listing of DAAC destination directoryto use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit EDS(s) to the GSFC DAAC via KFTP.	EDSs will be stored in the GSFC DAAC destination directory.	N/A		2/11/97
2.002	EDOS	Transmit signal file at completion of EDS transmission	Signal file will be stored in the GSFC DAAC destination directory.	Signal file will have same name as data file with a .xfr extension		2/11/97
2.003	EDOS	Transmit EDS Delivery Record to the GSFC DAAC after completion of EDS transmission	Delivery Record will be stored in the GSFC DAAC destination directory.	Delivery record file will be saved as .EDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/11/97
2.005	EDOS/ DAAC	Perform comparison on EDS sent from EDOS with EDS received by DAAC	Both EDSs should be identical			2/11/97
3.001	DAAC	Transmit EDS Acceptance Notification to EDOS via KFTP.	Acceptance Notification will be stored in EDOS directory	File name convention for EDS Acceptance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.005 **Modified:** 2/12/97 **Description:** Transfer Of ASTER EDS to GSFC DAAC

This test verifies that ASTER Expedited Data Sets can be transferred from EDOS to the GSFC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.1.3.1.c
4.1.3.1.f
4.1.3.10.b
4.1.3.14
4.1.3.2.a
4.1.3.2.b
4.1.3.7.g
4.1.3.7.h
4.1.3.8.b
4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.10
4.6.1.6
4.6.1.7
EDOS-4.1.3.1#A
EDOS-4.1.3.7#A
EDOS-4.6.1.1#A

Data Inputs:

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the GSFC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time action, updated upon request)		2/12/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directory for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit EDS(s) to the GSFC DAAC via KFTP	EDSs will be stored in the GSFC DAAC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file after completion of EDS transmission	Signal file will be stored in the GSFC directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit EDS Delivery Record to the GSFC DAAC after completion of EDS transmission	Delivery Record will be stored in the GSFC DAAC destination directory	Delivery record file will be saved as .EDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory		2/12/97
2.005	EDOS/ DAAC	Perform comparison of EDS sent from EDOS with EDS received by DAAC	Both EDSs should be identical			2/12/97
3.001	DAAC	Transmit EDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for EDS Accepatance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.006 **Modified:** 2/12/97 **Description:** Transfer Of CERES PDSs to LaRC DAAC

This test verifies that CERES Production Data Sets can be transferred from EDOS to the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.1.2.1.a
4.1.2.1.b
4.1.2.1.c
4.1.2.1.d
4.1.2.10.b
4.1.2.2.a
4.1.2.2.b
4.1.2.7.a
4.1.2.7.d
4.1.2.7.e
4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.6
4.6.1.7
4.6.1.9
EDOS-4.1.2.1#A
EDOS-4.1.2.7#A
EDOS-4.6.1.1#A
4.1.2.3(719)
4.1.2.6(989)
4.6.1.11

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
						4.1.2.8.a EDOS-4.1.2.3#A

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the LaRC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/12/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directory to use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit PDS(s) to the LaRC DAAC via KFTP	PDSs will be stored in the LaRC DAAC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file after completion of PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with .xfr extension		2/12/97
2.003	EDOS	Transmit EDS Delivery Record to the LaRC DAAC after completion of PDS transmission	Delivery Record will be stored in the LaRC DAAC destination directory	Delivery record will be saved as .PDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/12/97
2.005	EDOS/ DAAC	Perform comparison of PDS sent from EDOS with PDS received by DAAC	Both PDSs should be identical			2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Transmit PDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	Filename convention for PDS Acceptance Notification is: File Type Time of file creation File Name Extension - .EAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.007 **Modified:** 2/12/97 **Description:** Transfer Of MISR PDS to LaRC DAAC

This test verifies that MISR Production Data Sets can be transferred from EDOS to the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.1.2.1.a
4.1.2.1.b
4.1.2.1.c
4.1.2.1.d
4.1.2.10.b
4.1.2.2.a
4.1.2.2.b
4.1.2.7.a
4.1.2.7.d
4.1.2.7.e
4.1.2.8.a
4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.6
4.6.1.7
4.6.1.9
EDOS-4.1.2.1#A
EDOS-4.1.2.7#A
EDOS-4.6.1.1#A
4.1.2.3(719)
4.1.2.6(989)

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

4.6.1.11

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the LaRC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time omly action, updated upon request)		2/12/97
1.002	DAAC	Provide the following Security Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time omly action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directory for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit PDS(s) to the LaRC DAAC via KFTP	PDSs will be stored in the LaRC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file at completion of PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit PDS Delivery Record to the LaRC DAAC after completion of PDS transmission	Delivery Record will be stored in the LaRC DAAC destination directory	Delivery Record will be saved as .PDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/12/97
2.005	EDOS/ DAAC	Perform comparison of PDS sent from EDOS with PDS received by DAAC	Both PDSs should be identical			2/12/97
3.001	DAAC	Transmit PDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for PDS Acceptance Notification is: File Type Time of file creation File Name Extension - .PAN		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/	Equipment O	Expected Results /	Evaluation	Comments	Verified Reqs:	Last Modified:

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.008 **Modified:** 2/12/97 **Description:** Transfer Of MOPITT PDS to LaRC DAAC

This test verifies that MOPITT Production Data Sets can be transferred from EDOS to the LaRC DAAC .

Objectives:

Configuration:

Verified Requirements:

4.1.2.1.a
4.1.2.1.b
4.1.2.1.c
4.1.2.1.d
4.1.2.10.b
4.1.2.2.a
4.1.2.2.b
4.1.2.7.a
4.1.2.7.d
4.1.2.7.e
4.1.2.7.f
4.1.2.8.a
4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.6
4.6.1.7
4.6.1.9
EDOS-4.1.2.1#A
EDOS-4.1.2.7#A
EDOS-4.6.1.1#A
4.1.2.3(719)

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
					4.1.2.6(989) 4.6.1.11	

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the LaRC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time omly action, updated upon request)		2/12/97
1.002	DAAC	Transmit PDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for PDS Acceptance Notification is: File Type Time of file creation File Name Extension - .PAN		2/12/97
1.003	EDOS	Transmit signal file at completion of PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.001	EDOS	Transmit PDS(s) to the LaRC DAAC via KFTP	PDSs will be stored in the LaRC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file at completion of PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit PDS Delivery Record to the LaRC DAAC after completion of PDS transmission	Delivery Record will be stored in the LaRC DAAC destination directory	Delivery Record will be saved as .PDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/12/97
2.005	EDOS/ DAAC	Perform comparison of PDS sent from EDOS with PDS received by DAAC	Both PDSs should be identical			2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Transmit PDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for PDS Acceptance Notification is: File Type Time of file creation File Name Extension - .PAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.009 **Modified:** 2/12/97 **Description:** Transfer of MODIS PDS to GSFC DAAC

This test verifies that MODIS Production Data Sets can be transferred from EDOS to the GSFC DAAC.

Objectives:

Configuration:

Verified Requirements:

4.2.1.1
4.4.1.1
4.4.1.2
4.4.1.8
4.4.1.9
4.6.1.6
4.6.1.7
4.6.1.9
EDOS-4.6.1.1#A
4.1.2.3(719)
4.1.3.1.b
4.1.3.1.c
4.1.3.1.f
4.1.3.10.b
4.1.3.2.a
4.1.3.2.b
4.1.3.3
EDOS-4.1.3.1#A
EDOS-4.1.3.3#A
EDOS-4.1.3.7#A
4.1.3.7.a
4.1.3.7.e
4.1.3.8.b

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide the following Security Server information to the GSFC DAAC to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/12/97
1.002	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Password	N/A	(One time only action, updated upon request)		2/12/97
1.003	DAAC	Obtain listing of DAAC destination directory for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit PDS(s) to the GSFC DAAC via KFTP	PDSs will be stored in the GSFC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file at completion of PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit PDS Delivery Record to the GSFC DAAC after completion of PDS transmission	Delivery Record will be stored in the GSFC DAAC destination directory	Delivery Record will be saved as .PDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/12/97
2.005	EDOS/ DAAC	Perform comparison of PDS sent from EDOS with PDS received by DAAC	Both PDSs should be identical			2/12/97
3.001	DAAC	Transmit PDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for PDS Acceptance Notification is: File Type Time of file creation File Name Extension - .PAN		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/	Equipment O	Expected Results /	Evaluation	Comments	Verified Reqs:	Last Modified:

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.010 **Modified:** 2/12/97 **Description:** CERES PDS to LaRC DAAC Via Tape

This test verifies that CERES Production Data Sets on tape from EDOS can be received by the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:
4.1.2.11

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	DAAC	Submit a Service Request to EDOS for MOPITT data	EDOS begins analysis of service request	N/A		2/12/97
2.001	EDOS	Generate a copy of entire EDOS Archive Media od D3 tapes	N/A	Archived media contains all PDSs residing on the unit		2/12/97
2.002	EDOS	Send the archived PDS with the Physical Media Unit Delivery Letter	N/A	N/A		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Copy selected PDS from archived media	Selected PDS copied to destination directory	N/A		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.011 **Modified:** 2/12/97 **Description:** MISR PDS to LaRC DAAC Via Tape

This test verifies that MISR Production Data Sets on tape can be received by the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:
4.1.2.11

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	DAAC	Submit a Service Request to EDOS for MOPITT data	EDOS begins analysis of service request	N/A		2/12/97
2.001	EDOS	Generate a copy of entire EDOS Archive Media od D3 tapes	N/A	Archived media contains all PDSs residing on the unit		2/12/97
2.002	EDOS	Send the archived PDS with the Physical Media Unit Delivery Letter	N/A	N/A		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Copy selected PDS from archived media	Selected PDS copied to destination directory	N/A		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.012 **Modified:** 2/12/97 **Description:** MOPITT PDS to LaRC DAAC Via Tape

This test verifies that MOPITT Production Data Sets on tape from EDOS can be received by the LaRC.

Objectives:

Configuration:

Verified Requirements:
4.1.2.11

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	DAAC	Submit a Service Request to EDOS for MOPITT data	EDOS begins analysis of service request	N/A		2/12/97
2.001	EDOS	Generate a copy of entire EDOS Archive Media od D3 tapes	N/A	Archived media contains all PDSs residing on the unit		2/12/97
2.002	EDOS	Send the archived PDS with the Physical Media Unit Delivery Letter	N/A	N/A		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Copy selected PDS from archived media	Selected PDS copied to destination directory	N/A		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.013 **Modified:** 2/12/97 **Description:** MODIS PDS to GSFC DAAC Via Tape

This test verifies that MODIS Production Data Sets on tape from EDOS can be received by the GSFC DAAC.

Objectives:

Configuration:

Verified Requirements:
4.1.3.11

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	DAAC	Submit a service request to EDOS for MODIS data	EDOS begins analysis of service request	N/A		2/12/97
2.001	EDOS	Generate a copy of entire EDOS Archive Media od D3 tapes	N/A	Archived media contains all PDSs residing on the unit		2/12/97
2.002	EDOS	Send the archived PDS with the Physical Media Unit Delivery Letter	N/A	N/A		2/12/97

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
3.001	DAAC	Copy selected PDS from archived media	Selected PDS copied to destination directory	N/A		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:**

EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.014 **Modified:** 2/12/97 **Description:**

CERES DEDS From LaRC DAAC to EDOS

This test verifies that CERES DEDS from the LaRC DAAC can be stored by EDOS.

Objectives:

Configuration:

Verified Requirements:
4.1.2.12
4.1.2.13

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:**

EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.015 **Modified:** 2/3/97 **Description:**

MISR DEDS From LaRC DAAC to EDOS

This test verifies that MISR DEDS from the LaRC DAAC can be stored by EDOS.

Objectives:

Configuration:

Verified Requirements:
4.1.2.12
4.1.2.13

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:**

EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.016 **Modified:** 2/3/97 **Description:**

MOPITT DEDS From LaRC DAAC to EDOS

This test verifies that MOPITT DEDS from the LaRC DAAC can be stored by EDOS.

Objectives:

Configuration:

Verified Requirements:
4.1.2.12
4.1.2.13

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:**

EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.017 **Modified:** 2/3/97 **Description:**

MODIS DEDS From GSFC DAAC to EDOS

This test verifies that MODIS DEDS from the GSFC DAAC can be stored by EDOS.

Objectives:

Configuration:

Verified Requirements:
4.1.3.12
4.1.3.13

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.018 **Modified:** 2/12/97 **Description:** Non-science PDS transmissions - GSFC DAAC

This test verifies that the GSFC DAAC can receive Non-science PDS data.

Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination directory Password	N/A	(One time only action, updated upon request)		2/12/97
1.002	DAAC	Obtain listing of DAAC destination directory for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97
2.001	EDOS	Transmit PDS(s) to the GSFC DAAC via KFTP	PDSs will be stored in the GSFC destination directory	N/A		2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
2.002	EDOS	Transmit signal file at completion of PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Signal file will have same name as data file with a .xfr extension		2/12/97
2.003	EDOS	Transmit PDS Delivery Record to the GSFC DAAC after completion of PDS transmission	Delivery Record will be stored in the GSFC DAAC destination directory	Delivery Record will be saved as .PDR		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc)		2/12/97
2.005	EDOS/ DAAC	Perform comparison of PDS sent from EDOS with PDS received by DAAC	Both PDSs should be identical			2/12/97
3.001	DAAC	Transmit PDS Acceptance Notification to EDOS via KFTP	Acceptance Notification will be stored in EDOS directory	File name convention for PDS Acceptance Notification is: File Type Time of file creation File Name Extension - .PAN		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:**

EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.019 **Modified:** 2/12/97 **Description:**

EDOS/LaRC Anomaly Test

This test will exercise EDOS/LaRC interface anomalies.
.

Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide Security Server information to the LaRC DAAC for data transmission. (IP Address, Host Name, User ID, Password)	N/A	Updated upon request		2/12/97
1.002	DAAC	Provide Data Server information to EDOS for data transmission. (IP Address, Host Name, User ID, Password)	N/A	Updated upon request		2/12/97

Functional Thread Test Case

2/12/97

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.003	DAAC	Obtain a listing of the DAAC destination directory to use for comparison after transmission is completed	N/A	This verifies contents of the DAAC directory		2/12/97
2.001	EDOS	Transmit EDS/PDS to DAAC using KFTP	EDS/PDS should be stored in the DAAC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file after completion of EDS/PDS transmission	Signal file should be stored in the DAAC destination directory	Signal file should have the same name as the data file with an XFR extension		2/12/97
2.003	EDOS	Transmit the Delivery record to the DAAC	Delivery record should be stored in the DAAC destination directory	The Delivery record file should have the same name as the EDS/PDS with an EDR/PDR extension		2/12/97
2.004	DAAC	Obtain a listing of the DAAC destination directory to use for comparison	Destination directory should contain the expected EDS/PDS, a Signal file and a Delivery record	Ensure that all file sizes EDOS sent are		2/12/97

Test Case ID: V2.0-ICT-03.020 **Modified:** 2/12/97 **Description:** EDOS/GSFC Anomaly Test

This test will exercise EDOS/GSFC interface anomailes.

.

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
2.005	EDOS/DAAC	Compare EDS/PDS from EDOS with DAAC EDS/PDS	No differences should exist	Use UNIX difference command or other compare tool		2/12/97
3.001	DAAC	Transmit Acceptance Notification to EDOS	Acceptance notification should indicate a problem with the EDS/PDS	A bad EDS/PDS was transmitted		2/12/97
3.002	DAAC	Contact EDOS via phone to coordinate re-delivery	DAAC should provide further diagnosis if possible	N/A		2/12/97
3.003	DAAC	Submit a Problem report to EDOS identifying problem	Problem should be identified as an EDS/PDS problem	N/A		2/12/97
3.004	EDOS	Investigate problem and resend EDS/PDS	N/A	N/A		2/12/97
3.005	DAAC	Send EDS/PDS Acceptance Notification to EDOS	N/A	Acceptance Notification indicates that re-transmission was successful		2/12/97
3.006	EDOS	Complete problem analysis sheet and forward to DAAC	N/A	N/A		2/12/97

Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001	EDOS	Provide Security Server information to the GSFC DAAC for data transmission. (IP Address, Host Name, User ID, Password)	N/A	Updated upon request		2/12/97
1.003	DAAC	Provide Data Server information to EDOS for data transmission. (IP Address, Host Name, User ID, Password)	N/A	Updated upon request		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

2/12/97

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.003	DAAC	Obtain a listing of the DAAC destination directory to use for comparison after transmission is completed	N/A	This verifies contents of the DAAC directory		2/12/97
2.001	EDOS	Transmit EDS/PDS to DAAC using KFTP	EDS should be stored in the DAAC destination directory	N/A		2/12/97
2.002	EDOS	Transmit signal file after completion of EDS/PDS transmission	Signal file should be stored in the DAAC destination directory	Signal file should have the same name as the data file with an XFR extension		2/12/97
2.003	EDOS	Transmit the Delivery record to the DAAC	Delivery record should be stored in the DAAC destination directory	The Delivery record file should have the same name as the EDS with an EDR extension		2/12/97
2.004	DAAC	Obtain a listing of the DAAC destination directory to use for comparison	Destination directory should contain the expected EDS/PDS, a Signal file and a Delivery record	Ensure that all files sizes EDOS can be read by the DAAC		2/12/97

Test Case ID: V2.0-ICT-03.021 **Modified:** 2/12/97 **Description:** EDOS/LaRC DAAC Data Rate Test

This test will exercise data rate performance from EDOS to the LaRC DAAC.

.

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
2.005	EDOS/DAAC	Compare EDS from EDOS with DAAC EDS/PDS	No differences should exist	Use UNIX difference command or other compare tool		2/12/97
3.001	DAAC	Transmit Acceptance Notification to EDOS	Acceptance notification should indicate a problem with transmission	A bad EDS/PDS was transmitted		2/12/97
3.002	DAAC	Contact EDOS via phone to coordinate re-delivery	DAAC should provide further diagnosis if possible	N/A		2/12/97
3.003	DAAC	Submit a Problem report to EDOS identifying problem	Problem should be identified as an EDS/PDS problem	N/A		2/12/97
3.004	EDOS	Investigate problem and resend EDS/PDS	N/A	N/A		2/12/97
3.005	DAAC	Send EDS/PDS Acceptance Notification to EDOS	N/A	Acceptance Notification indicates that re-transmission was successful		2/12/97
1.001	DAAC	Provide the following Data Server information to EDOS to facilitate data transmission: KFTP IP Address Host Name User ID Destination Directory Password	N/A	(One time only action, updated upon request)		2/12/97
3.006	EDOS	Complete problem analysis sheet and forward to DAAC	N/A	N/A		2/12/97
1.002	DAAC	Obtain listing of DAAC destination directory to use for comparison after transmission	N/A	Save contents of DAAC destination directory		2/12/97

Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

2/12/97

Step ID	Test Station	Operator Actions/ Equipment O	Expected Results / Evaluation	Comments	Verified Reqs:	Last Modified:
2.001	EDOS	Transmit EDS/PDS to the LaRC DAAC via KFTP	EDS/PDS will be stored in the LaRC DAAC destination directory.	Data Rate should be 28 Mbps		2/12/97
2.002	EDOS	Transmit signal file after completion of EDS/PDS transmission	Signal file will be stored in the LaRC DAAC destination directory	Data rate should be up to 49 kbps		2/12/97
2.003	EDOS	Transmit EDS/PDS Delivery Record to the LaRC DAAC after completion of EDS transmission.	Delivery Record will be stored in the LaRC DAAC destination directory	Data rate should be up to 49 kbps		2/12/97
2.004	DAAC	Obtain listing of DAAC destination directory after data transmission for comparison of directories	Destination directory should contain transmitted data in the destination directory	Examine contents of DAAC destination directory (Filename/size etc.)		2/12/97
2.005	EDOS/ DAAC	Perform comparison of EDS/PDS sent from EDOS with EDS/PDS received by DAAC	Both EDS/PDS should be identical			2/12/97
3.001	DAAC	Transmit EDS/PDS Acceptance Notification to EDOS via KFTP.	Acceptance Notification will be stored in EDOS directory	Data rate should be up to 49 kbps		2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:**

EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.022 **Modified:** 2/12/97 **Description:**

EDOS/GSFC DAAC Data Rate Test

This test will exercise data rate performance from EDOS to the GSFC DAAC.
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Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.023 **Modified:** 2/12/97 **Description:** EDOS/LaRC DAAC Service RequestTest

This test will exercise the use of service requests between EDOS and the LaRC DAAC.

Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results:

Functional Thread Test Case

Thread ID: V2.0-ICT-03 **Modified:** 2/5/97 **Description:** EDOS (LZPF) To LaRC/GSFC DAAC Interface Test

EDOS will interface with several DAACs that will receive science data and supporting data types from one or several instruments. Certain DAACs will interface with EDOS to receive mission data to be used as input in the generation of data products, while other DAACs will interface with each other to receive data products as the input for science data processing. The ECS SDPS elements at the DAACs will interface with EDOS as required to receive Production Data Sets (PDSs) which serve as input to Level 1-4 science data processing.

The GSFC DAAC will receive ASTER and MODIS data from EDOS. The LaRC DAAC will receive CERES, MISR and MOPITT data. EDOS will provide these DAACs with PDSs and Expedited Data Sets (EDSs), Non-Science PDS data and Operations Management Data (OMD). The DAACs will provide DAAC to EDOS Data Sets (DEDS) and OMD data to EDOS.

Test Objectives

- To verify EDSs can be transferred from EDOS to the DAAC
- To verify PDSs can be transferred from EDOS to the DAAC
- To verify data on physical media from EDOS can be read by the DAAC
- To verify that EDOS can receive Service Requests from the DAACs
- To verify that the DAAC can receive Non-Science PDS data

Test Case ID: V2.0-ICT-03.024 **Modified:** 2/12/97 **Description:** EDOS/GSFC DAAC Service RequestTest

This test will exercise the use of service requests between EDOS and the GSFC DAAC.

Objectives:

Configuration:

Verified Requirements:

Data Inputs:

Methods for Results Analysis:

Assumptions/Constraints:

Step ID	Test Station	Operator Actions/ Equipment Operation:	Expected Results / Evaluation Criteria:	Comments	Verified Reqs:	Last Modified:
1.001		TBS				2/12/97

Actions Required after Program Stop/Indicated Error:

Procedures for Reducing/Analyzing Results: