

Reference Table: This table provide information for reviewers

IRD_id	req_key	source_interface	dest_interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
AM1-0120	217	ECS	AM-1	The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.		AM1-0120#B	5612	FOS CSMS	interface	TBD	un-verified			TBD	The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.	
						AM1-0120#A	7861	FOS CSMS	interface	test	un-verified	test	un-verified	mission critical	The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.	96-1093
AM1-0125	218	AM-1	ECS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real		AM1-0125#B	5614	FOS CSMS	interface	TBD	un-verified			TBD	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and	

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				time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.											CLCWs) real time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.	
						AM1-0125#A	7862	FOS CSMS	interface	test	un-verified	test	un-verified	mission critical	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom , and EDOS or ETS.	96-1093
AM1-0130	219	AM-1	ECS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) recorded AM-1		AM1-0130#A	7979	CSMS	interface	test	un-verified	test	un-verified	mission fulfillment	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) recorded	96-0620C

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				housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.											AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, EBNet, and EDOS/ETS.	
						AM1-0130#B	7980	FOS CSMS	interface	test	un-verified	test	un-verified	mission critical	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) recorded AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.	96-0620C
AM1-0135	220	AM-1	ECS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument		AM1-0135#B	7981	FOS CSMS	interface	test	un-verified	test	un-verified	mission critical	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument	96-0620C

IRD_id	req_key	source_interface	dest_interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
				microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.											microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.	
						AM1-0135#A	7994	CSMS	interface	test	un-verified	test	un-verified	mission fulfillment	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, EBNet, and EDOS/ETS.	96-0620C
AM1-0140	221	AM-1	ECS	The SCS shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) AM-1 spacecraft		AM1-0140#B	5619	FOS CSMS	interface	TBD	un-verified			TBD	The SCS shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets)	

IRD_id	req_key	source_interface	dest_interface	text	ccr	paragraph_id	req_key	seg_allocat	req_type	s_ve_metho	s_ver_status	a_ver_metho	a_ver_status	req_category	text	ccr
				telemetry data (as defined in AM-1 ICD-106) during spacecraft launch via launch configurations which include EDOS and Ecom.											AM-1 spacecraft telemetry data (as defined in AM-1 ICD-106) during spacecraft launch via launch configurations which include EDOS and Ecom.	
NI-0030	1041	TDRSS	ECS	ECS shall have the capability to interface with the TDRSS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.		NI-0030#B	7146	FOS SDPS CSMS	interface	test	un-verified	test	un-verified	mission critical	ECS shall have the capability to interface with the TDRSS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.	96-0956A
						NI-0030#A	7592	FOS SDPS CSMS	interface	test	un-verified	test	un-verified	mission essential	ECS shall have the capability to interface with the TDRSS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission Detailed	96-0957A

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															Mission Requirements documents.	
NI-0230	1045	GN/DSN/WOTS	ECS	ECS shall have the capability to interface with the GN, DSN, and WOTS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/EBnet interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.		NI-0230#A	7332	FOS CSMS	interface	demo	un-verified	demo	un-verified	mission critical	ECS shall have the capability to interface with the GN, DSN, and WOTS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/Ecom interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.	96-0956A
						NI-0230#B	7333	FOS CSMS	interface	demo	un-verified	demo	un-verified	mission critical	ECS shall have the capability to interface with the GN, DSN, and WOTS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/ Ecom interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.	96-0956A

IRD_id	req_key	source_interface	dest_interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_ve_method	s_ver_status	a_ver_method	a_ver_status	req_category	text	ccr
NI-0240	1008	GN/DSN/WOTS	ECS	ECS shall have the capability to receive non-telemetry data from the GN, DSN, and WOTS (via the EDOS/ Ecom interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.		NI-0240#B	2064	FOS	interface	TBD	un-verified			TBD	ECS shall have the capability to receive non-telemetry data from the GN, DSN, and WOTS (via the EDOS/ Ecom interface). Mission-specific requirements for supporting EOS spacecraft operations will be documented in the EOS mission-level Detailed Mission Requirements documents.	

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ASTER-0110	752	ECS	ASTER	<p>ECS shall have the capability to send and ASTER GDS shall have the capability to receive DARs for the ASTER instrument. DARs shall contain the following information, at a minimum:</p> <ol style="list-style-type: none"> a. Observation number b. Experimenter identification c. Experimenter address d. Investigation identification e. Scientific discipline f. Observation repetition period g. Tolerance in observation time h. User priority i. Scheduling priority and target of opportunity flag j. Descriptive text k. Location data expressed in terms of longitude and latitude as earliest start coordinates and latest stop coordinates l. Earliest start time m. Latest stop time 		ASTER-0110#B	6260	SDPS	interface	test	un-verified	test	un-verified	mission critical	<p>ECS shall have the capability to send and ASTER GDS shall have the capability to receive DARs for the ASTER instrument. DARs shall contain the following information, at a minimum:</p> <ol style="list-style-type: none"> a. Observation number b. Experimenter identification c. Experimenter address d. Investigation identification e. Scientific discipline f. Observation repetition period g. Tolerance in observation time h. User priority i. Scheduling priority and target of opportunity flag j. Descriptive text k. Location data expressed in terms of longitude and latitude as earliest start coordinates and latest stop coordinates l. Earliest start time m. Latest stop time n. Minimum coverage required o. Maximum coverage desired 	

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				n. Minimum coverage required o. Maximum coverage desired p. Number of instruments involved in the investigation q. Which instruments are involved in the investigation. r. Associated product generation request and product distribution request s. Pointing angle t. Calibration requirements u. Coordination requirements v. Data transmission requirements w. Illumination requirements (day/night) x. Specific time of observation y. Sun angle z. Direct downlink option											p. Associated product generation request and product distribution request q. Pointing angle r. Calibration requirements s. Coordination requirements t. Data transmission requirements u. Illumination requirements (day/night) v. Specific time of observation w. Sun angle x. Direct downlink option	
ASTER-0520	755	ASTER	ECS	ASTER GDS shall have the capability to send and ECS shall have the capability to receive real time command requests.		ASTER-0520#B	5668	FOS	interface	TBD	un-verified			TBD	ASTER GDS shall have the capability to send and ECS shall have the capability to receive real time command groups requests.	
EDOS-4.2.8.1	1268	EDOS	ECS	The EDOS-SMC interface shall provide the capability	96-1118C	EDOS-4.2.8.1#B	8152	SDPS	performance interface	demo	un-verified	demo	un-verified	mission critical	The EDOS-SMC interface shall provide the capability	96-11

IRD_id	req_key	source_interfac	dest_interface	text	ccr	paragrah_id	req_key	seg_allocat	req_type	s_ve_method	s_ver_status	a_ver_method	a_ver_status	req_category	text	ccr
				to support the transfer of Operations Management data to the SMC at a rate of up to 49 kbps.											capability to support the transfer of Operations management Management data to the SMC at a rate of up to 49 kbps.	132B
EDOS-4.3.2.1	1270	ECS	ECS	The LaRC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional 15 minutes for each gigabyte of EDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	96-1118C	EDOS-4.3.2.1#B	8154	SDPS	performance	demo	un-verified	demo	un-verified	mission critical	The LaRC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional <u>additional</u> 15 minutes for each gigabyte of EDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	96-11132B
EDOS-4.3.2.2	1271	ECS	EDOS	The LaRC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional 15 minutes for each gigabyte of PDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	96-1118C	EDOS-4.3.2.2#B	8155	SDPS	performance	demo	un-verified	demo	un-verified	mission critical	The LaRC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional <u>additional</u> 15 minutes for 1 each gigabyte of PDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	96-11132B
EDOS-4.3.3.1	1272	ECS	EDOS	The GSFC DAAC shall provide the capability to initiate transfer of the	96-1118C	EDOS-4.3.3.1#B	8156	SDPS	performance	demo	un-verified	demo	un-verified	mission critical	The GSFC DAAC shall provide the capability to initiate transfer of the	96-111

IRD_id	req_key	source_interface	dest_interface	text	ccr	paragraph_id	req_key	seg_allocat	req_type	s_ve_method	s_ver_status	a_ver_method	a_ver_status	req_category	text	ccr
				PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional 15 minutes for each gigabyte of EDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.											PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional <u>additional</u> 15 minutes for each gigabyte of EDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	32B
EDOS-4.3.3.2	1273	ECS	EDOS	The GSFC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional 15 minutes for each gigabyte of PDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	96-1118C	EDOS-4.3.3.2#B	8157	SDPS	performance	demo	un-verified	demo	un-verified	mission critical	The GSFC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additional <u>additional</u> 15 minutes for each gigabyte of PDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.	96-1118C
LAND-0085	1089	ECS	LAND SAT 7	The ECS shall have the capability to send and the LPS shall have the capability to receive an acknowledgement <u>acknowledgment</u> after ECS archives the Landsat 7 data.	96-0917B	LAND-0085#B	5712	SDPS	interface	TBD	un-verified			N/A	The ECS shall have the capability to send and the LPS shall have the capability to receive an acknowledgment after ECS archives the Landsat 7 data.	
						LAND-0085#A	7661	SDPS	interface	test	un-verified	test	un-verified	mission essential	The ECS shall have the capability to send and the LPS shall have the capability to receive an	96-11021

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															acknowledgment after ECS archives the Landsat 7 data.	
LAND-0220	866			The Landsat 7 LPS shall provide the FDDI connector(s) and cable for connection to the ECS router and FDDI interface at EDC, required to transmit and receive Landsat 7 data to and from ECS.		LAND-0220#B	5850	CSMS	interface	TBD	un-verified		un-verified	N/A	The Landsat 7 LPS shall provide the FDDI connector(s) and cable for connection to the DCS <u>ECS</u> router and FDDI interface at EDC, required to transmit and receive Landsat 7 data to and from ECS.	
						LAND-0220#A	6624	CSMS	procedural	inspection	un-verified	inspection	un-verified	mission essential	The Landsat 7 LPS shall provide the FDDI connector(s) and cable for connection to the ECS router and FDDI interface at EDC, required to transmit and receive <u>receive</u> Landsat 7 data to and from ECS.	96-0909A
LAND-0240	868			The interfaces and any systems connecting <u>connecting</u> to the ECS through these interfaces shall be consistent and compatible with ESDIS implementation of all security requirements imposed on the ECS and with all security documents applicable to ECS.		LAND-0240#B	5852	SDPS CSMS	interface	TBD	un-verified			N/A	The interfaces and any systems connecting to the ECS through these interfaces shall be consistent and compatible <u>compatible</u> with ESDIS implementation of all security requirements imposed on the ECS and with all security documents applicable to ECS.	
NOAA 0010	459	ECS/SA A	ECS/SA A	The interface between the ECS and		NOAA0010#B	6001	SDPS CSMS	interface TBD				un-verified	TBD	The interface between ECS and the SAAs	

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				the SAAs shall support two-way Level 2 or 3 catalog interoperability as defined by the CEOS.											shall support one-way level 2 or 3 catalog interoperability as defined by the CEOS such that an ECS user can ean access the SAA.	
						NOAA0010#C	6002	SDPS	interface TBD				un-verified	TBD	The interface between ECS and the SAAs shall support one-way level 2 or 3 catalog interoperability as defined by the CEOS such that an ECS user can ean access the SAA.	

Reference Table (continue): The following TRMM related changes and deletions (all deletions) are as a results of ESDIS CCR 505-41-14-004-A/005-C/006

IRD_id	req_key	source_interface	destination-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_ver_method	s_ver_status	a_ver_method	a_ver_status	req_category	text	ccr
TRMM 1060	766	TRMM	ECS	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production and quick-look data by an agreed-upon file transfer protocol.		TRMM 1060#B	5889	SDPS CSMS	interface	TBD	un-verified			TBD	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production and quick-look data by an agreed-upon file transfer protocol.	
						TRMM 1060#A	7461	SDPS CSMS	interface	test	un-verified	test	un-verified	mission critical	The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production and quick-look data by an agreed-upon file transfer protocol.	96-1020
TRMM 1090	769	ECS	TRMM	Upon the ECS systems at the LaRC DAAC discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.		TRMM 1090#B	5906	SDPS	interface	TBD	un-verified			TBD	Upon the ECS systems at the LaRC DAAC, upon discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.	
						TRMM 1090#A	7154	SDPS	procedural operational	inspection	un-verified	inspection	un-verified	mission essential	Upon the ECS systems at the LaRC DAAC discovering an unprocessable data set during validation, the ECS and SDPF personnel shall assess the need for regeneration.	96-0918C

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
TRMM-3010	-825	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.		TRMM3-010#B	5990	SDPS	interface	TBD	un-verified			TBD	The ECS system at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.	
						TRMM3-010#r1	5991	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.	
TRMM-3030	-826	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest TRMM browse products for PR, TMI, and GV from TSDIS.		TRMM3-030#B	5993	SDPS	interface	TBD	un-verified			TBD	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.	
						TRMM3-030#r1	5994	SDPS	interface	TBD	un-verified			TBD	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.	
TRMM-3040	-795	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.		TRMM3-040#B	5996	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.	
						TRMM3-040#r1	5997	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.	
TRMM-3060*	-797	ECS	TRMM	The PR, TMI, and GV data ingested		TRMM3-060#B	6004	SDPS	interface	TBD	un-verified			TBD	The PR, TMI, and GV	

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
				from TSDIS by ECS shall be archived in the ECS systems at the MSFC DAAC.											data ingested from TSDIS by ECS shall be archived in the ECS systems at the MSFC DAAC.	
TRMM-3070	798	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.		TRMM3-070#B	6006	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.	
TRMM-3080	799	TRMM	ECS	TSDIS shall electronically provide a schedule of TRMM product delivery to the ECS systems at the MSFC DAAC.		TRMM3-080#B	6008	SDPS	interface	TBD	un-verified			TBD	TSDIS shall electronically provide a schedule of TRMM product delivery to the ECS systems at the MSFC DAAC.	
TRMM-3090	800	TRMM	ECS	TSDIS shall electronically provide status information to the ECS systems at the MSFC DAAC about delayed products.		TRMM3-090#B	6010	SDPS	interface	TBD	un-verified			TBD	TSDIS shall electronically provide status information to the ECS systems at the MSFC DAAC about delayed products.	
TRMM 3050	796	TRMM	ECS	The ECS systems at the MSFC <u>GSFC</u> DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.		TRMM3 050#B	5999	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC <u>GSFC</u> DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.	
						TRMM3 050#A	7901	SDPS	interface	test	un-verified	test	un-verified	mission essential	The ECS systems at the GSFC DAAC shall ingest TRMM Ground Validation (GV) data products and associated metadata from TSDIS.	96-1103

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
TRMM 4010	827	TRMM	ECS	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for <u>VIRS, PR and TMI, and combined products</u> from TSDIS.		TRMM4 010#B	6019	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for <u>VIRS, PR and TMI, and combined products</u> from TSDIS.	
						TRMM4 010#A	7464	SDPS	interface	test	un-verified	test	un-verified	mission essential	The ECS systems at the GSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for VIRS, PR and TMI, and combined products from TSDIS.	96 - 10 20
TRMM 4030	805	TRMM	ECS	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for <u>VIRS, PR, TMI, combined products and GV</u> from TSDIS.		TRMM4 030#B	6022	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for <u>VIRS, PR, TMI, combined products and GV</u> from TSDIS.	
						TRMM4 030#A	7465	SDPS	interface	test	un-verified	test	un-verified	mission fulfillment	The ECS systems at the GSFC DAAC shall ingest TRMM browse products for VIRS, PR, TMI, combined products and GV from TSDIS.	96 - 10 20
TRMM 4040	1286	TRMM	ECS	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for <u>VIRS, PR TMI and combined products.</u>	96 - 12 32	TRMM4 040#B	6025	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for <u>VIRS, PR, TMI, and combined products.</u>	
						TRMM4 040#A	7466	SDPS	interface	test	un-verified	test	un-verified	mission essential	The ECS systems at the GSFC DAAC shall	96 - 10

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
															ingest from TSDIS algorithms and documentation for VIRS, PR, TMI, and combined products.	20
TRMM 4050	1287	TRMM	ECS	The <u>VIRS, PR, TMI, combined products</u> and <u>GV</u> data ingested from TSDIS by ECS shall be archived at the ECS systems at the GSFC DAAC.	96 - 12 32	TRMM4 050#B	6028	SDPS	interface	TBD	un-verified			TBD	The <u>VIRS, PR, TMI, combined products</u> and <u>GV</u> data ingested from TSDIS by ECS shall be archived at the ECS systems at the GSFC DAAC.	
						TRMM4 050#A	7451	SDPS	functional interface	test	un-verified	test	un-verified	mission essential	The VIRS, PR, TMI, combined products and GV data ingested from TSDIS by ECS shall be archived at the ECS systems at the GSFC DAAC.	96 - 10 20
TRMM 4070	1289	TRMM	ECS	TSDIS shall electronically provide a schedule for processing to the of TRMM product delivery to the ECS systems at the GSFC DAAC.	96 - 12 32	TRMM4 070#B	6032	SDPS	interface	TBD	un-verified			TBD	TSDIS shall electronically provide a schedule for reprocessing to the of TRMM product delivery to the ECS systems at the GSFC DAAC.	
						TRMM4 070#A	7219	N/A_procedural	procedural	not verified by ECS	N/A_procedural	not verified by ECS	N/A_procedural	N/A_procedural	TSDIS shall provide a schedule for reprocessing to the GSFC DAAC.	96 - 09 18 C
TRMM 4080	1290	TRMM	ECS	TSDIS shall electronically provide status information to the ECS systems at the GSFC DAAC about delayed products.	96 - 12 32	TRMM4 080#B	6034	SDPS	interface	TBD	un-verified			TBD	TSDIS shall electronically provide status information to the ECS systems at the GSFC DAAC about delayed products.	
						TRMM4 080#A	7987	N/A_procedural	procedural	not verified by ECS	N/A_procedural	not verified by ECS	N/A_procedural	N/A_procedural	TSDIS shall provide status information to the ECS systems at the GSFC DAAC about delayed products.	

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
TRMM 4090	1291	ECS	TRMM	ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VIRS, PR, TMI and GV Global Precipitation Climatology Project (GPCP), and ancillary data to TSDIS for the purpose of reprocessing by TSDIS. ECS shall also daily ingest an average of 2-days worth of reprocessed data from TSDIS.	96 - 12 32	TRMM4 090#B	3000	SDPS	interface	TBD	un-verified			TBD	ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VIRS, PR, TMI and GV, and AVHRR, GOES Precipitation Index (GPI), Global Precipitation Climatology Project (GPCP), and National Meteorological Center (NMC) ancillary data to TSDIS for the purpose of reprocessing by TSDIS. ECS shall also daily ingest an average of 2-days worth of reprocessed data from TSDIS.	
						TRMM4 090#A	7453	SDPS	interface	test	un-verified	test	un-verified	mission essential	ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VIRS, PR, TMI, and GV, and ancillary data to TSDIS for the purpose of reprocessing by TSDIS. ECS shall also daily ingest an average of 2-days worth of reprocessed data from TSDIS.	96 - 10 20
TRMM 4100	1292	TRMM	ECS	TSDIS shall make a standing order to ECS for ancillary data to be delivered from the ECS systems at the GSFC DAAC to TSDIS.	96 - 12 32	TRMM4 100#B	6037	SDPS	interface	TBD	un-verified			TBD	TSDIS shall make a standing order to ECS for AVHRR, GPI, GPCP, and NMC ancillary data to be delivered from the	

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
															ECS systems at the GSFC DAAC to TSDIS.	
						TRMM4100#A	7890	SDPS	interface	test	un-verified	test	un-verified	mission essential	TSDIS shall make a standing order to ECS for ancillary data to be delivered from the ECS systems at the GSFC DAAC to TSDIS.	96-1103
TRMM4110	1293	ECS	TRMM	Communications between TSDIS and the ECS systems at the GSFC DAAC to transport the <u>VIRS, PR, TMI, combined products and GV</u> standard products, metadata, ancillary data, and algorithms and documentation shall be provided by ESDIS.	96-1232	TRMM4110#B	6403	CSMS	interface	inspection	un-verified	analysis	un-verified	mission essential	Communications between TSDIS and the ECS systems at the GSFC DAAC to transport the <u>VIRS, PR, TMI, combined products and GV</u> standard products, metadata, <u>GPI, GPCP, and NMC</u> ancillary data, and algorithms and documentation shall be provided by ESDIS.	
						TRMM4110#A	7226	CSMS	interface	test	un-verified	test	un-verified	mission essential	Communications between TSDIS and the ECS systems at the GSFC DAAC to transport the VIRS, PR, TMI, combined products and GV standard products, metadata, ancillary data, and algorithms and documentation shall be provided by ESDIS.	96-0918C
TRMM4130	1294	ECS	TRMM	All data transferred between TSDIS and ECS systems at the GSFC DAAC,	96-1232	TRMM4130#r1	6044	SDPS	interface	TBD	un-verified			TBD	All data transferred between TSDIS and ECS systems at the GSFC DAAC, <u>including GV</u> shall	

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
				including GV shall follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.											follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.	
						TRMM4130#B	6046	SDPS	interface	TBD	un-verified			TBD	All data transferred between TSDIS and ECS systems at the GSFC DAAC, including GV shall follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.	
						TRMM4130#A	7988	SDPS	procedural	inspection	un-verified	inspection	un-verified	mission essential	All data transferred between TSDIS and ECS systems at the GSFC DAAC, including GV shall follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.	96-1176A
TRMM5010	1295	TRMM	ECS	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.	96-1232	TRMM5010#r1	3014	SDPS	interface	TBD	un-verified			TBD	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.	
						TRMM5010#B	3016	SDPS	interface	TBD	un-verified			TBD	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.	
						TRMM5010#A	7467	SDPS	interface	test	un-verified	test	un-verified	mission essential	ECS shall ingest TRMM metadata, and browse from TSDIS along with the TRMM standard products in the ECS format.	
TRMM5030	1296	TRMM	ECS	ECS shall have the capability to ingest directory and guide information from TSDIS.	96-1232	TRMM5030#r1	3019	SDPS	interface	TBD	un-verified			TBD	ECS shall have the capability to ingest directory and guide information from TSDIS.	
						TRMM5		SDPS	interface	TBD	un-			TBD		

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
						030#B	3021				verified				ECS shall have the capability to ingest directory and guide information from TSDIS.	
						TRMM5030#A	7468	SDPS	interface	test	un-verified	test	un-verified	mission essential	ECS shall have the capability to ingest directory and guide information from TSDIS.	
TRMM 5040	1297	ECS	TRMM	ECS shall have the capability to archive and distribute standard TRMM data files and products (including VIRS, PR and TMI, and combined products data, metadata, GV data, algorithms and documentation) as provided and produced by TSDIS and the TRMM Science Team.	96 - 12 32	TRMM5040#B	3023	SDPS	interface	TBD	un-verified			TBD	ECS shall have the capability to archive and distribute standard TRMM data files and products (including VIRS, PR and TMI, and combined products data, metadata, GV data, algorithms and documentation) as provided and produced by TSDIS and the TRMM Science Team.	
						TRMM5040#A	7455	SDPS	interface	test	un-verified	test	un-verified	mission essential	ECS shall have the capability to archive and distribute standard TRMM data files and products (including VIRS, PR, TMI, and combined products data, metadata, GV data, algorithms and documentation) as provided and produced by TSDIS and the TRMM Science Team.	
TRMM 5050	1298	TRMM	ECS	TRMM shall support maintenance of a TRMM user model for use in the overall ECS user model.	96 - 12 32	TRMM5050#B	3025	N/A	procedural	TBD	un-verified			TBD	TRMM shall support maintenance of a TRMM user model for use in the overall ECS user model.	
						TRMM5050#A	7232	N/A_procedural	procedural	not verified by ECS	N/A_procedural	not verified by ECS	N/A_procedural	N/A_procedural	TRMM shall support maintenance of a TRMM user model for use in the overall ECS user model.	
TRMM 5060	1299	ECS	TRMM	ECS shall provide standard information management functions for browse, and order of data and products provided by	96 - 12 32	TRMM5060#B	3027	SDPS	interface	TBD	un-verified			TBD	ECS shall provide standard information management functions for browse, and order of data and	

IRD_id	req_key	source_interface	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	req_category	text	ccr
				TSDIS and delivered to the MSFC and GSFC DAACs (including VIRS, PR and TMI, and combined products data, metadata, GV data, TRMM Science Team algorithms and documentation).											products provided by TSDIS and delivered to the MSFC and GSFC DAACs (including VIRS, PR and TMI, and combined products data, metadata, GV data, TRMM Science Team algorithms and documentation).	
						TRMM5060#A	7234	SDPS	interface	demo	un-verified	demo	un-verified	mission essential	ECS shall provide standard information management functions for browse, and order of data and products provided by TSDIS and delivered to the GSFC DAAC (including VIRS, PR, TMI, and combined products data, metadata, GV data, TRMM Science Team algorithms and documentation).	96-0918C
TRMM 5100	1301	ECS	TRMM	ECS shall provide products status for TRMM products to users based upon ECS holdings. Status also shall be based on the TRMM schedule provided electronically by TSDIS and an interactive status mechanism for late products.	96-1232	TRMM5100#B	3035	SDPS	interface	TBD	un-verified			TBD	ECS shall provide products status for TRMM products to users based upon ECS holdings. Status also shall be based on the TRMM schedule provided electronically by TSDIS and an interactive status mechanism for late products.	

IRD_id	req_key	source_interfac	dest-interface	text	ccr	paragraph_id	req_key	seg_allocation	req_type	s_ve_method	s_ver_status	a_ver_method	a_ver_status	req_category	text	ccr
						TRMM5100#A	7456	SDPS	interface	demo	un-verified	demo	un-verified	mission essential	ECS shall provide products status for TRMM products to users based upon ECS holdings.	96-1020

Reference Table(continue): This table is provided for reviewers

L3_id	req_key	req_title	text	RbR_id	req_key	req_type	s_ver_method	s_ver_status	a_ver_method	a_ver_status	segment_allocation	req_category	text
EOC-4008	200	Transmit commands via Ecom	The EOC shall be capable of transmitting commands via Ecom.	EOC-4008#B	3722	functional	test	unverified	test		FOS	mission critical	The EOC shall be capable of transmitting commands via Ecom.
				EOC-4008#A	4416	functional	test	unverified	test		FOS	mission critical	The EOC shall be capable of transmitting commands via Ecom.

Table 1- IRD Change Table: This table identifies modifications to existing IRD requirement as identified in the 110896 baseline version of the RTM database.

IRD_id	req_key	source_interface	destination_interface	req-clarificatios	text
AM1-0120	217	ECS	AM-1	<u>Ecom is considered to be EBnet.</u>	The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0125	218	AM-1	ECS	<u>Ecom is considered to be EBnet.</u>	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0130	219	AM-1	ECS	<u>Ecom is considered to be EBnet.</u>	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) recorded AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0135	220	AM-1	ECS	<u>Ecom is considered to be EBnet.</u>	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0140	221	AM-1	ECS	<u>Ecom is considered to be EBnet.</u>	The SCS shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) AM-1 spacecraft telemetry data (as defined in AM-1 ICD-106) during spacecraft launch via launch configurations which include EDOS and Ecom.
NI-0030	1041	TDRSS	ECS	<u>Ecom is considered to be EBnet.</u>	ECS shall have the capability to interface with the TDRSS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/ EBnet <u>Ecom</u> interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.
NI-0110	126	NCC/ECS	ECS/NCC	<u>Ecom is considered to be EBnet.</u>	ECS shall have the capability to communicate with the NCC via the Ecom interface.
NI-0230	1045	GN/DSN/WOTS	ECS	<u>Ecom is considered to be EBnet.</u>	ECS shall have the capability to interface with the GN, DSN, and WOTS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/ EBnet <u>Ecom</u> interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.
NI-0240	1008	GN/DSN/WOTS	ECS	<u>Ecom is considered to be EBnet.</u>	ECS shall have the capability to receive non-telemetry data from the GN, DSN, and WOTS (via the EDOS/Ecom interface). Mission-specific requirements for supporting EOS spacecraft telemetry operations will be documented in the EOS mission-level Detailed Mission Requirements documents.
TRMM4090	1291	ECS	TRMM		ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VIRS, PR, TMI and GV Global <u>Precipitation Climatology Project (GPCP)</u> , and ancillary data to TSDIS for the purpose of

IRD_id	req_key	source_interfac	destination_interface	req-clarificatio	text
					reprocessing by TSDIS. ECS shall also daily ingest an average of 2-days worth of reprocessed data from TSDIS.
TRMM4110	1293	ECS	TRMM		Communications between TSDIS and the ECS systems at the GSFC DAAC to transport the <u>VIRS, PR, TMI, combined products and GV standard products</u> , metadata, ancillary data, and algorithms and documentation shall be provided by ESDIS.
TRMM4130	1294	ECS	TRMM		All data transferred between TSDIS and ECS systems at the GSFC DAAC, <u>including GV</u> shall follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.
TRMM5040	1297	ECS	TRMM		ECS shall have the capability to archive and distribute standard TRMM data files and products (including <u>VIRS, PR, and TMI, and combined products</u> data, metadata, GV data, algorithms and documentation) as provided and produced by TSDIS and the TRMM Science Team.
TRMM5060	1299	ECS	TRMM		ECS shall provide standard information management functions for browse, and order of data and products provided by TSDIS and delivered to the MSFC and GSFC DAACs (including <u>VIRS, PR, and TMI, and combined products</u> data, metadata, GV data, TRMM Science Team algorithms and documentation).
TRMM5100	1301	ECS	TRMM		ECS shall provide products status for TRMM products to users based upon ECS holdings. Status also shall be based on the TRMM schedule provided electronically by TSDIS and an interactive status mechanism for late products.

Table 2- L3 F&PRS Change Table: This table identifies modification to existing L3 F&PRS requirement as identified in the 110896 baseline version of the RTM database.

L3_id	req_key	req_title	req-clarifications	text
EOC-4008	200	Transmit commands via Ecom	<u>Ecom is considered to be EBnet.</u>	The EOC shall be capable of transmitting commands via Ecom.

Table 3 - RbR Change Table: This table identifies modifications to existing RbR requirement in the RbR class as identified in the 110896 baseline version of the RTM database.

paragrap h_id	req_key	seg_allocat	req_type	s_ve_method	s_ver_status	a_ver_m ethod	a_ver_status	req_cat egory	req-interpretatio n	text
EOC-4008#B	3722	FOS	functional	test	un-verified	test	<u>un-verified</u>	mission critical	<u>Ecom is considered to be EBnet.</u>	The EOC shall be capable of transmitting commands via Ecom.

Table 4 - RbR Change Table: This table identifies modifications to existing IRD requirement in the RbR class as identified in the 110896 baseline version of the RTM database.

paragrap h_id	req _key	seg_ allocat	req_ type	s_ve_ method	s_ver _status	a_ver_ method	a_ver_ status	req_ categor y	req- interpreta tion	text
AM1-0120#B	5612	FOS CSMS	interface	TBD <u>demo</u>	un-verified	<u>demo</u>	<u>un-verified</u>	TBD <u>mission critical</u>	<u>Ecom is considered to be EBnet.</u>	The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom and EDOS or ETS.
AM1-0125#B	5614	FOS CSMS	interface	TBD <u>demo</u>	un-verified	<u>demo</u>	<u>un-verified</u>	TBD <u>mission critical</u>	<u>Ecom is considered to be EBnet</u>	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0130#B	7980	FOS CSMS	interface	<u>test demo</u>	un-verified	<u>test demo</u>	un-verified	mission critical	<u>Ecom is considered to be EBnet</u>	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) recorded AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0135#B	7981	FOS CSMS	interface	<u>test demo</u>	un-verified	<u>test demo</u>	un-verified	mission critical	<u>Ecom is considered to be EBnet</u>	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.
AM1-0140#B	5619	FOS CSMS	interface	TBD <u>demo</u>	un-verified	<u>demo</u>	<u>un-verified</u>	TBD <u>mission critical</u>	<u>Ecom is considered to be EBnet</u>	The SCS shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) AM-1 spacecraft telemetry data (as defined in AM-1 ICD-106) during spacecraft launch via launch configurations which include EDOS and Ecom.
ASTER-0520#B	5668	FOS	interface	TBD <u>demo</u>	un-verified	<u>demo</u>	<u>un-verified</u>	TBD <u>mission essential</u>		ASTER GDS shall have the capability to send and ECS shall have the capability to receive real time command groups

paragrap h_id	req _key	seg_ allocat	req_ type	s_ve_ method	s_ver _status	a_ver_ method	a_ver_ status	req_ categor y	req- interpreta tion	text
										<u>requests.</u>
EDOS-4.2.8.1#B	8152	SDPS	performa nce interface	demo	un- verified	demo	un- verified	mission critical		The EDOS-SMC interface shall provide the capabiltiy <u>capability</u> to support the transfer of Operations management <u>Management</u> data to the SMC at a rate of up to 49 kbps.
EDOS-4.3.2.1#B	8154	SDPS	performa nce	demo	un- verified	demo	un- verified	mission critical		The LaRC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additonal <u>additional</u> 15 minutes for each gigabyte of EDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.
EDOS-4.3.2.2#B	8155	SDPS	performa nce	demo	un- verified	demo	un- verified	mission critical		The LaRC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additonal <u>additional</u> 15 minutes for each gigabyte of PDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.
EDOS-4.3.3.1#B	8156	SDPS	performa nce	demo	un- verified	demo	un- verified	mission critical		The GSFC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additonal <u>additional</u> 15 minutes for each gigabyte of EDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.
EDOS-4.3.3.2#B	8157	SDPS	performa nce	demo	un- verified	demo	un- verified	mission critical		The GSFC DAAC shall provide the capability to initiate transfer of the PDS/EDS Acceptance Notification to EDOS within a time period of 15 minutes plus an additonal <u>additional</u> 15 minutes for each gigabyte of PDS data, after successful receipt of the PDS/EDS Delivery Record from EDOS.
LAND-0220#B	5850	CSMS	interface	TBD <u>inspecti on</u>	un- verified	<u>inspecti on</u>	<u>un- verified</u>	N/A N/A <u>procedur al</u>		The Landsat 7 LPS shall provide the FDDI connector(s) and cable for connection to the ECS <u>ECS</u> router and FDDI interface at EDC, required to transmit and receive Landsat 7 data to and from ECS.
LAND-0240#B	5852	SDPS CSMS	interface	TBD <u>inspecti on</u>	un- verified	<u>inspecti on</u>	<u>un- verified</u>	N/A N/A <u>procedur al</u>		The interfaces and any systems connecting to the ECS through these interfaces shall be consistent and capatible <u>compatible</u> with ESDIS implementation of all security requirements imposed on the ECS and with all security documents applicable to ECS.
NI-0230#B	7333	FOS CSMS	interface	demo	un- verified	demo	un- verified	mission critical	<u>Ecom is considered to be EBnet</u>	ECS shall have the capability to interface with the GN, DSN, and WOTS for obtaining return link (telemetry) data from EOS spacecraft (via the EDOS/ Ecom interface). Mission-specific requirements for supporting EOS

paragrap h_id	req _key	seg_ allocat	req_ type	s_ve_ method	s_ver _status	a_ver_ method	a_ver_ status	req_ categor y	req- interpreta tion	text
										spacecraft telemetry operations will be documented in the EOS mission- level Detailed Mission Requirements documents.
NI- 0240#B	2064	FOS	interface	TBD demo	un- verified	demo	un- verified	TBD mission fulfilme nt	Ecom is considered to be EBnet	ECS shall have the capability to receive non-telemetry data from the GN, DSN, and WOTS (via the EDOS/ Ecom interface). Mission-specific requirements for supporting EOS spacecraft operations will be documented in the EOS mission-level Detailed Mission Requirements documents.
NOAA00 10#B	6001	SDPS CSMS	interface TBD	test	un- verified	test	un- verified	TBD mission essential	Partial implement ation at Release B. ECS user can access SAA, but SAA user cannot access ECS.	The interface between ECS and the SAAs shall support one -way level 2 or 3 catalog interoperability as defined by the CEOS such that an ECS user can ean access the SAA.
NOAA00 10#C	6002	SDPS	interface TBD	test	un- verified	test	un- verified	TBD mission essential	Partial implement ation at Release B. ECS user ean access SAA, but SAA user cannot access ECS.	The interface between ECS and the SAAs shall support one two- way level 2 or 3 catalog interoperability as defined by the CEOS such that an ECS user can can access the SAA.
TRMM10 60#B	5889	SDPS CSMS	interface	TBD demo	un- verified	demo	un- verified	TBD mission critical		The ECS systems at the LaRC DAAC shall, after notification by SDPF, retrieve CERES Level 0 production and quick-look data by an agreed-upon file transfer protocol.
TRMM30 50#B	5999	SDPS	interface	TBD test	un- verified	test	un- verified	TBD mission		The ECS systems at the MSFC GSFC DAAC shall ingest

paragrap h_id	req _key	seg_ allocat	req_ type	s_ve_ method	s_ver _status	a_ver_ method	a_ver_ status	req_ categor y	req- interpreta tion	text
								essential		TRMM Ground Validation (GV) data products and associated metadata from TSDIS.
TRMM40 10#B	6019	SDPS	interface	TBD test	un- verified	test	un- verified	TBD mission essential		The ECS systems at the GSFC DAAC shall ingest TRMM standard products <u>products</u> (Level 1A - 3B) for <u>VIRS, PR and TMI</u> , and <u>combined products</u> from TSDIS.
TRMM40 30#B	6022	SDPS	interface	TBD test	un- verified	test	un- verified	TBD mission essential		The ECS systems at the GSFC DAAC shall ingest TRMM browse products for <u>VIRS, PR, TMI, combined products and GV</u> from TSDIS.
TRMM40 40#B	6025	SDPS	interface	TBD test	un- verified	test	un- verified	TBD mission essential		The ECS systems at the GSFC DAAC shall ingest from TSDIS algorithms and documentation for <u>VIRS, PR, TMI, and combined products</u> .
TRMM40 50#B	6028	SDPS	interface	TBD test	un- verified	test	un- verified	TBD mission essential		The <u>VIRS, PR, TMI, combined products and GV</u> data ingested from TSDIS by ECS shall be archived at the ECS systems at the GSFC DAAC.
TRMM40 70#B	6032	SDPS N/A pr ocedura l	interfaee procedur al	TBD not verified by ECS	un- verified N/A pr ocedura l	not verified by ECS	N/A pr ocedura l	TBD N/A pro cedural		TSDIS shall electronically provide a schedule <u>for reprocessing to the of TRMM product delivery to the ECS systems at the GSFC DAAC.</u>
TRMM40 80#B	6034	SDPS N/A pr ocedur al	interfaee procedur al	TBD not verified by ECS	un- verified N/A pro cedural	not verified by ECS	N/A pr ocedura l	TBD N/A pro cedural		TSDIS shall electronically provide status information to the ECS systems at the GSFC DAAC about delayed products.
TRMM40 90#B	3000	SDPS	interface	TBD test	un- verified	test	un- verified	TBD mission essential		ECS shall make daily deliveries of an average of 2-days worth of archived TRMM VIRS, PR, TMI and GV, and AVHRR, GOES Precipitation Index (GPI), Global Precipitation Climatology Project (GPCP), and National Meteorological Center (NMC) ancillary data to TSDIS for the purpose of reprocessing by TSDIS. ECS shall also daily ingest an average of 2-days worth of reprocessed data from TSDIS.
TRMM41	6037	SDPS	interface	TBD	un-	test	un-	TBD		

paragrap h_id	req _key	seg_ allocat	req_ type	s_ve_ method	s_ver _status	a_ver_ method	a_ver_ status	req_ categor y	req- interpreta tion	text
00#B				<u>test</u>	verified		<u>verified</u>	<u>mission essential</u>		TSDIS shall make a standing order to ECS for AVHRR, GPI, GPCP, and NMC ancillary data to be delivered from the ECS systems at the GSFC DAAC to TSDIS.
TRMM41 10#B	6403	CSMS	interface	inspecti on	un- verified	analysis	un- verified	mission essential		Communications between TSDIS and the ECS systems at the GSFC DAAC to transport the <u>VIRS, PR, TMI, combined products and GV</u> standard products, metadata, GPI, GPCP, and NMC ancillary data, and algorithms and documentation shall be provided by ESDIS.
TRMM41 30#B	6046	SDPS	interface	TBD <u>inspecti on</u>	un- verified	<u>inspecti on</u>	<u>un- verified</u>	TBD <u>mission essential</u>		All data transferred between TSDIS and ECS systems at the GSFC DAAC, <u>including GV</u> shall follow ESDIS-defined standards, with specific product formats to be jointly agreed to and documented in ICDs.
TRMM50 40#B	3023	SDPS	interface	TBD <u>test</u>	un- verified	<u>test</u>	<u>un- verified</u>	TBD <u>mission essential</u>		ECS shall have the capability to archive and distribute standard TRMM data files and products (including <u>VIRS, PR and TMI, and combined products data</u> , metadata, GV data, algorithms and documentation) as provided and produced by TSDIS and the TRMM Science Team.
TRMM50 60#B	3027	SDPS	interface	TBD <u>demo</u>	un- verified	<u>demo</u>	<u>un- verified</u>	TBD <u>mission essential</u>		ECS shall provide standard information management functions for browse, and order of data and products provided by TSDIS and delivered to the MSFC and GSFC DAACs (including <u>VIRS, PR and TMI, and combined products</u> data, metadata, GV data, TRMM Science Team algorithms and documentation).
TRMM51 00#B	3035	SDPS	interface	TBD <u>demo</u>	un- verified	<u>demo</u>	<u>un- verified</u>	TBD <u>mission essential</u>		ECS shall provide products status for TRMM products to users based upon ECS holdings. Status also shall be based on the TRMM schedule provided electronically by TSDIS and an interactive status mechanism for late products.

Table. 5- IRD deletions Table: This table identifies deletions to existing IRD requirement as identified in the 110896 baseline version of the RTM database.

IRD_id	req_key	source_interface	destination_interface	text
TRMM3010	—825	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A – 3B) for PR and TMI from TSDIS.
TRMM3030	—826	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest TRMM browse products for PR, TMI, and GV from TSDIS.
TRMM3040	—795	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
TRMM3060 *	—797	ECS	TRMM	The PR, TMI, and GV data ingested from TSDIS by ECS shall be archived in the ECS systems at the MSFC DAAC.
TRMM3070	—798	TRMM	ECS	The ECS systems at the MSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.
TRMM3080	—799	TRMM	ECS	TSDIS shall electronically provide a schedule of TRMM product delivery to the ECS systems at the MSFC DAAC.
TRMM3090	—800	TRMM	ECS	TSDIS shall electronically provide status information to the ECS systems at the MSFC DAAC about delayed products.

Table. 6 - RbR deletions Table: This table identifies deletions to existing IRD requirements in the RbR class as identified in the 110896 baseline version of the RTM database.

Note to implementors: All the a_verification_method and s_verification_method must change to “test”, if they are blank or TBD attributes. Also, all the a_verification_status change to un-verified for blank attributes.

paragraph_id	req_key	seg_allocat	req_type	s_ve_metho_d	s_ver_status	a_ve_r_me_thod	a_ver_status	req_ca tegory	text
TRMM3010#B	5990	SDPS	interface	TBD	un-verified			TBD	The ECS systes system at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
TRMM3010#Ir1	5991	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest TRMM standard products (Level 1A - 3B) for PR and TMI from TSDIS.
TRMM3030#B	5993	SDPS	interface	TBD	un-verified			TBD	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
TRMM3030#Ir1	5994	SDPS	interface	TBD	un-verified			TBD	The ECS MSFC DAAC shall ingest TRMM browse products for PR and TMI from TSDIS.
TRMM3040#B	5996	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
TRMM3040#Ir1	5997	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest algorithms and documentation for PR and TMI from TSDIS.
TRMM3060#B	6004	SDPS	interface	TBD	un-verified			TBD	The PR, TMI, and GV data ingested from TSDIS by ECS shall be archived in the ECS systems at the MSFC DAAC.
TRMM3070#B	6006	SDPS	interface	TBD	un-verified			TBD	The ECS systems at the MSFC DAAC shall ingest TRMM data files and data products, including metadata, daily.
TRMM3080#B	6008	SDPS	interface	TBD	un-verified			TBD	TSDIS shall electronically provide a schedule of TRMM product delivery to the ECS systems at the MSFC DAAC.
TRMM3090#B		SDPS	interface	TBD	un-			TBD	

paragraph_id	req_key	seg_allocat	req_type	s_ve_metho d	s_ver_status	a_ve_r_me thod	a_ver_status	req_ca tegrity	text
	6010				verified				TSDIS shall electronically provide status information to the ECS systems at the MSFC DAAC about delayed products.

Table 7: New RbR requirements for Rel. B

RbR_id	RbR_key	segment_allocation	req_type	s_ver_metho d	s_ver_s tatus	a_ver_method	a_ver_status	req_category	text
<u>TRMM4101#B</u>	New	SDPS	interface	demo	un- verified	demo	un- verified	mission essential	The ECS system at the GSFC DAAC shall accept data orders that TSDIS places on behalf of TSDIS Science Users (TSUs) by specifying TSDIS granule identifications.
<u>TRMM4102#B</u>	New	SDPS	interface	demo	un- verified	demo	un- verified	mission essential	The ECS systems at the GSFC DAAC shall accept requests from TSDIS for the status of data orders that TSDIS has placed.
<u>TRMM4103#B</u>	New	SDPS	interface	demo	un- verified	demo	un- verified	mission essential	ECS shall provide Level 0 Housekeeping data to TSDIS upon request.
<u>TRMM4104#B</u>	New	SDPS	interface	demo	un- verified	demo	un- verified	mission essential	The ECS systems at the GSFC DAAC shall provide FDF definitive/predictive ephemeris/orbit, held by LaRC for CERES, on request.

Table 8: Links from IRD to Rel. B RbRs

IRD_id	RbR_id
<u>TRMM4101</u>	<u>TRMM4101#B</u>
<u>TRMM4102</u>	<u>TRMM4102#B</u>
<u>TRMM4103</u>	<u>TRMM4103#B</u>
<u>TRMM4104</u>	<u>TRMM4104#B</u>

Table 9: Links from RbR Rel. B to appropriate L4s

RbR_id	L4-id
<u>TRMM4101#B</u>	<u>S-DSS-05500</u>
<u>TRMM4101#B</u>	<u>S-DSS-05510</u>
<u>TRMM4102#B</u>	<u>S-DSS-00120</u>
<u>TRMM4103#B</u>	<u>S-DSS-00010</u>
<u>TRMM4104#B</u>	<u>S-DSS-00710</u>