

Table 1. Changes to Rel B RBR Class - RTM baseline 03-14-97

R_id	req_key	Rel	req_cat egory	segme nt	req_t ype	s_ver if_me thod	s_ver if_sta t	a_ver if_me thod	a_ver if_sta t	CCR	text	interpretation text	clarification
JSD0015#B	8986		mission critical	FOS CSMS	functi onal opera tional interf ace	test	un- verifi ed	test	un- verifi ed	97- 0074	ECS shall use and support the AGS, SGS, Deep Space Network (DSN), the Ground Network (GN) , and the Wallops Orbital Tracking Station (WOTS), via the EDOS/EBnet interface, as backup of the SN, to obtain forward and return link data communications.	ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS	
JSD1010#B	9075		mission critical	FOS SDPS CSMS	perfo man ce	test	un- verifi ed	test	un- verifi ed	97- 0194A	ECS shall support daily data volume, processing load, storage volume, instrument support, and data traffic as derivable from and specified in Appendix C and D.	FOS applicability: instrument support only. The FOS/EOC requirement is met through the use of CSMS services.	Refer to the following requirements for Release 1 capacity requirements: Processing - PGS 1300#B; Archiving Capacity - DADS1805#B, DADS2778#B, and DADS2900#B; and Archive Throughput - DADS2778#B and DADS3100#B. Refer to the Clarification text of the following requirements for Release 1 capacity requirements: Processing - PGS1300#B; Archiving Capacity - DADS1640#B, DADS1805#B, DADS2778#B, and DADS2900#B; and Archive Throughput - DADS2778#B and DADS3100#B.
JSD1030#B	8851		mission essential	SDPS	perfo man ce functi onal	test	un- verifi ed	test	un- verifi ed	96- 1468A	ECS shall have the capacity to accept a daily average of two (2) per cent of the daily data throughput as expedited data for use in mission functions of calibration and anomalies.		For AM-1 and TRMM only
JSD1040#B	9147		mission fulfillme nt	SDPS CSMS	perfo man ce	analy sis	un- verifi ed	analy sis	un- verifi ed	97- 0241	ECS shall provide sufficient capacity to permit the reprocessing of all EOS science data at twice the incoming data rate at a minimum, concurrently with processing of new data.	TRMM & AM-1	
JSD1502#B	9001		mission critical	FOS SDPS CSMS	interf ace	demo	un- verifi ed	demo	un- verifi ed	97- 0116A	ECS elements shall use EBnet for data communications for the following types of data: a. Production data sets (Level 0 data) b. Expedited data sets c. Real-time data (for health and safety) d. Command data e. Data requested from back-up archive f. TDRSS schedule requests g. Data exchange with the FDF h. Production Data Transfers between DAACs	To support AM-1 operations. EBnet COMMUNICATIONS BETWEEN THE GSFC DAAC AND FDF	Current understanding has the ORNL ESN support ESnet (Energy Science Network) for connectivity of ORNL DAAC to ECS and users via the Internet; and most of network traffic to/from ORNL as user traffic (not production). At GSFC the ESN intrasite communications include the

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											i. Management Data exchange with SMC j. Data Products Exchange with ADCs, IPs, and Others		SMC and EOC/ICC (FOS) for management data exchanges. The LaRC ESN includes support to use the Campus LAN for SAGE. Item j. "Others" includes TSDIS/GSFC data product exchanges.
SD1607#B	9003		mission critical	SDPS CSMS	interf ace	test	un- verifi ed	test	un- verifi ed	97- 0116A	ECS shall receive data from near term Earth Probe missions to include the following as a minimum: a). TRMM data for archive and distribution (Deleted) b). Landsat 7 data for archive and distribution including IGS metadata and browse.		
SD1710#B	9006		mission fulfillme nt	SDPS CSMS	interf ace	demo	un- verifi ed	test	un- verifi ed	97- 0116A	ECS elements shall exchange with ADCs/ODCs, such as NOAA and other data processing and archiving facilities, information including the following: a. Directories b. Product Orders c. Order Status d. Science Data e. Management Data	2-way interoperability ODCs do not apply for B0.	
SD1750#B	8903		mission essential	SDPS CSMS	interf ace	demo	un- verifi ed	demo	un- verifi ed	96- 1468A	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, Pls, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer requests (inventories, directories, and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data	TRMM , AM-1	
SD2640#B	9146		mission essential	SDPS CSMS	secur ity	test	un- verifi ed	test	un- verifi ed	97- 0227	ECS elements shall relinquish a connection between the element and a user when the user has not been active for a configurable period of time.	Computer operators at ECS HW CIs shall not be considered "users".	"relinquish a connection" shall mean suspend the session
SD4010#B	9020		mission essential	SDPS	RMA	analy sis	un- verifi ed	analy sis	un- verifi ed	97- 0116A	Each computer providing product generation shall have an operational availability of 0.95 at a minimum (.9995 design goal).	AM-1, TRMM	System acceptance shall be based only on specified requirements and not design goals. Reference F&PRS (423-41-02) paragraph 1.5.
SD4020#B	8967		mission essential	SDPS	RMA	inspe ction	un- verifi ed	inspe ction	un- verifi ed	96- 1468A	At each DAAC site, the product generation functional capabilities shall be spread across multiple product generation computers thereby providing a "failsoft" environment.	TRMM mission: launch plus 12 months , AM-1 mission: launch plus 12 months	
SD5000#B	8970		mission fulfillme nt	SDPS CSMS	evolv able	analy sis	un- verifi ed	analy sis	un- verifi ed	96- 1468A	ECS shall enable the addition of other data providers, e.g. DAACs, SCFs, ADCs, ODCs, which may: - provide heterogeneous services, i.e. services in support of EOS which may be less than or different than ECS services. - be connected with varying topologies	ODCs do not apply for B0.	The ECS system allows the ECS client to search, browse and order data from NESDIS SSA. The Advertising Service enables the advertisements for the ECS and non-ECS

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											- have variable levels of reliability or operational availability.		data and services.