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Table 1 (Attachment), EOSD - ECS System Wide Requirements
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GLOBAL CHANGE: For EOSD RbR attribute "a_verif_stat", identify the attribute for all requirements as "unverified".

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD0500#A	5598	FOS SDPS CSMS	functional	Analysis	un-verified	Analysis	un-verified	ECS shall perform the following major functions: a. EOS Mission Planning and Scheduling b. EOS Mission Operations c. Command and Control d. Communications and Networking e. Data Input f. Data Processing g. Data Storage h. Data Distribution i. Information Management j. End-to-End Fault Management k. System Management.	This "high level" requirement covers almost all capabilities provided by ECS. Only selected software and hardware requirements are mapped to this requirement. Additional software requirements are mapped to "lower level" RbRs which are more specific.	

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD0560#A	6450	SDPS CSMS	procedural	test <u>demo</u>	un-verified	test <u>demo</u>	<u>un-verified</u>	ECS benchmark tests and test data sets shall be defined for system verification and data quality evaluation.	Acceptance Test <u>A: Bench mark tests shall be accessible via the Configuration Management Services.</u> <u>A: Test data sets shall be defined for unit, component, subsystem, system, internal/external interface, fault isolation, and end to end test. Simulated or actual data are captured and characterized as test data sets. Test data shall be on media accessible via Configuration Management Services.</u> Procedures (411/VE1) will address compliance.	

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD0700#A	6211	SDPS CSMS	functional procedural	demo inspection	un-verified	demo inspection	<u>un-verified</u>	Each ECS element shall provide the following, to be used in the revalidation of its functional performance: a. Benchmark test(s) b. Standard test data sets.	<u>A: Bench mark tests shall be accessible via the Configuration Management Services.</u> <u>A: Standard test data sets shall be defined for unit, component, subsystem, system, internal/external interface, fault isolation, and end to end test.</u> <u>Simulated or actual data are captured and characterized as test data sets. Standard test data shall be on media accessible via Configuration Management Services.</u> Acceptance Test Procedures (411/VE1) will also address compliance.	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD0710#A	6212	SDPS I CSMS	functional Procedural	demo Inspection	<u>un-verified</u>	demo Inspection	<u>un-verified</u>	Each ECS element shall provide access to the following items used in the checkout and verification process: a. Stored test data sets b. Stored test plans c. Stored test procedures.		

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EOSD0720#A	6452	SDPS CSMS	functional	test	un-verified	test <u>Demo</u>	<u>un-verified</u>	Each ECS element shall be able to validate at any time during the life-time of the ECS that the ECS element primary functional performance is consistent with pre-defined operational benchmark tests.		

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD1010#A	4810	FOS SDPS CSMS	performance	test	un-verified	test	<u>un-verified</u>	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	<u>Refer to the clarification on text of the following requirements for Release A capacity requirements: processing - PGS130 0#A and PGS131 0# A: Archivin g</u>

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										<u>Capacity</u> = <u>DADS18</u> <u>05#A,</u> <u>DADS27</u> <u>78#A</u> <u>and</u> <u>DADS29</u> <u>00#A;</u> <u>and</u> <u>Archive</u> <u>Through</u> <u>put -</u> <u>DADS27</u> <u>78#A</u> <u>and</u> <u>DADS31</u> <u>00#A.</u>
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EOSD1040#A	4812	SDPS I CSMS	performance	analysis	un-verified	analysis	<u>un-verified</u>	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.	A: For CERES and LIS on TRMM only.	<u>Release A only provides the capacity to reprocess TRMM CERES data at LaRC @ 20% of the incoming data rate concurrent with processing of new data. Increased capacity will be provided at deliveries 1 and 2 years after TRMM launch.</u>

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EOSD1705#A	6455	SDPS CSMS	procedural <u>Interface</u>	Analysis <u>Demo</u>	un-verified	Analysis <u>Demo</u>	<u>un-verified</u>	ECS shall support interfaces to DAAC Unique components.	A: interfaces to support L7 testing @ EDC	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD1710#A	6456	SDPS CSMS	Interface	demo	un-verified	demo <u>test</u>	<u>un-verified</u>	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	A: NOAA ADC 1-way interoperability ECS to NOAA	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD1720#A	6457	SDPS CSMS	interface	demo	un-verified	demo <u>test</u>	<u>un-verified</u>	ECS elements shall receive from the ECS user community the following types of data requests at a minimum: b. Data Distribution Requests c. Reprocessing Requests	A: b-limited to operable DAACs c-CERES/LIS for TRMM only for MSFC, LaRC	

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD1750#A	4837	SDPS CSMS	interface	Demo	un-verified	Demo , analysis	<u>un-verified</u>	ECS elements shall receive data including the following types of supporting information from the ECS science community (TLs, TMs, PIs, and Co-Is): a. Algorithms b. Software fixes c. Instrument calibration data d. Integration support requests e. Metadata for Special Products archiving f. Data transfer request(inventories, directories and browse) g. Data Quality/Instrument assessment h. Instrument operations information i. Ancillary data.	A: TRMM and affected DAACs	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD1990#A	6458	FOS SDPS CSMS	security	Analysis <u>Inspection</u>	un-verified	Analysis <u>Inspection</u>	<u>un-verified</u>	The ECS system and elements shall employ security measures and techniques for all applicable security disciplines which are identified in the preceding documents. These documents shall provide the basis for the ECS security policy.	A: as determined in the technical security planning policy activity documented in EOSD2100.	

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD2100#A	5580	FOS SDPS CSMS	procedural Isecurity	inspection	un-verified	inspection	<u>un-verified</u>	The ECS technical security policy planning shall be comprehensive and shall cover at least the following areas: a. Applicability of the C2 Level of Trustedness as defined by the NSAb. Applicability of the C2 Object Reuse capability. Discretionary control and monitoring of user access .d. ECS communications, network access, control, and monitoring e. Computer system "virus" monitoring, detection and remedy f. Data protection controls g. Account/privilege management and user session tailoring	Compliance demonstrated documented in DID 214/SE1 , 215/SE3 and 514/PA2.	<u>Reference subparagraph a. "Applicability of the C2 Level of Trustedness as defined by the NSA" and subparagraph b. "Applicability of the C2 Object Reuse capability" is not applicable to the ECS project. NASA Automated Information Security Handbook, NHB 2410.9 is applied.</u>

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										<p><u>Also reference subparagraph k, NHB 2410.9, "Risk Analysis" is documented in 215/SE3 and 514/PA2. Additional programmatic security risk items are documented in CDRL 210/SE3.</u></p>
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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD2200#A	5581	FOS SDPS CSMS	operational procedural Isecurity	inspection	un-verified	inspection	un-verified	Selection criteria meeting overall ECS security policies and system requirements shall be applied when selecting hardware.	Compliance demonstrated in DID 214/SE1 and security selection parameters documented in 514/PA2.	<u>DID 514</u> documents the sensitivity/criticality of the ECS hardware.

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3200#A	6459	FOS SDPS CSMS	security	inspection	un-verified	inspection <u>test</u>	<u>un-verified</u>	A minimum of one backup which is maintained in a separate physical location (i.e., different building) shall be maintained for ECS software and key data items (including security audit trails and logs).		

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3220#A	6214	SDPS	<u>Procedural</u> security	inspection	<u>un-verified</u>	inspection	<u>un-verified</u>	All media shall be handled and stored in protected areas with environmental and accounting procedures applied.		

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3490#A	5094	FOS SDPS CSMS	RMA	inspection/ analysis	un-verified	inspection/ analysis	un-verified	Reliability statistics for ECS shall be collected and monitored using the Mean Time Between Maintenance (MTBM) for each component and operational capability.	A: applicable DAACs	<u>The initial Requirement ent compliance shall be verified by comparing (analyzing) the data collected for the ECS against the predicted MTBM documented in DID 515/PA1. After RRR the MTBM will be verified by an inspection and analysis of the actual operations data</u>

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3500#A	6460	FOS SDPS CSMS	procedural RMA	Demø <u>Inspection</u>	un-verified	Demø <u>Inspection</u>	<u>un-verified</u>	The ECS RMA Program shall adhere to GSFC 420-05-03, Performance Assurance Requirements for the EOSDIS.	Planned in PAIP This analysis presented in CDRLs 515, 516, 517, 518	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3510#A	6461	FOS SDPS CSMS	procedural RMA	test <u>Inspection</u>	un-verified	test <u>Inspection</u>	<u>un-verified</u>	Reliability predictions shall be calculated in accordance with the parts count analysis method, Appendix A, of MIL-HDBK-217F, Reliability Prediction of Electronic Equipment.	Planned in PAIP. This analysis presented in CDRLS- § 515, 516, 517, 518.	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3600#A	6462	FOS SDPS CSMS	procedural RMA	test <u>Inspection</u>	un-verified	test <u>Inspection</u>	<u>un-verified</u>	Maintainability shall be predicted in accordance with MIL-HDBK-472, Maintainability Prediction, Procedure IV.	By analysis presented in CDRL 518	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3610#A	5585	FOS SDPS CSMS	procedural RMA	inspection	un-verified	inspection	<u>un-verified</u>	The Maintainability Status Report shall be based on MIL-STD-470A, Maintainability Program for Systems and Equipment, Task 104 and shall include any changes in the MTBM predictions.	Compliance described by analysis presented in CDRL 518	

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EOSD3615#A	5586	FOS SDPS CSMS	procedural RMA	inspection	un-verified	inspection	<u>un-verified</u>	The Maintainability Status Report shall also include data on items specified for maintainability reporting in GSFC 420-05-03.	Compliance described by analysis presented in CDRL 518	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3625#A	6464	FOS SDPS CSMS	procedural RMA	test <u>Inspection</u>	un-verified	test <u>Inspection</u>	un-verified	For ECS functions with a backup capability, ECS shall use switchover time to the backup capability in measuring maintainability, rather than down time, when the component goes down.	Compliance described by analysis presented in CDRL 511	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3630#A	5110	FOS SDPS CSMS	RMA	Analysis <u>Inspection</u>	un-verified	Analysis <u>Inspection</u>	<u>un-verified</u>	The maximum down time shall not exceed twice the required MDT in 99 percent of failure occurrences.	A: applicable DAACs	<u>An inspection of the statistical RMA data will be used in the requirement verification.</u>

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EOSD3700#A	5113	FOS SDPS CSMS	RMA	analysis <u>inspection</u>	un-verified	analysis <u>inspection</u>	<u>un-verified</u>	ECS functions shall have an operational availability of 0.96 at a minimum (.998 design goal) and an MDT of four (4) hours or less (1.5 hour design goal), unless otherwise specified. The above requirement covers equipment including: a. "Non-critical" equipment configured with the critical equipment supporting the functional capabilities in the requirements. b. Equipment providing other functionality not explicitly stated in the RMA requirements that follow.	A: applicable DAACs - Does not apply to data processing function. Product generation is applicable to EOSD4010 and EOSD4020.	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3900#A	5121	SDPS	RMA	analysis <u>Inspection</u>	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The SDPS function of receiving science data shall have an operational availability of 0.999 at a minimum (.99995 design goal) and an MDT of two (2) hours or less (8 minutes design goal).	A: TRMM, L0 science data from SDPF (no product data);	

RBR_id	req	segment	req_type	s_verif_	s_verif_	a_verif_	a_verif_	text	interpre text	Clarif
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	key			method	stat	method	stat			Text
EOSD3920#A	5123	SDPS	RMA	analysis <u>inspection</u>	un-verified	analysis <u>inspection</u>	<u>un-verified</u>	The SDPS function of archiving and distributing data shall have an operational availability of 0.98 at a minimum (.999999 design goal) and an MDT of two (2) hours or less (9 minutes design goal).	A: TRMM @ LaRC, MSFC, GSFC	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3930#A	5125	SDPS	RMA	analysis <u>Inspection</u>	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The user interfaces to Information Management System (IMS) services at individual Distributed Active Archive Center (DAAC) sites shall have an operational availability of 0.993 at a minimum (.9997 design goal) and an MDT of two (2) hours or less (1.6 hour	A: TRMM at applicable DAACs <u>GSFC & LaRC</u>	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3940#A	1145	SDPS	RMA	analysis	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The SDPS function of Information Searches on the ECS Directory shall have an operational availability of 0.993 at a minimum (.9997 design goal) and an MDT of two (2) hours or less (1.4 hour design goal).	<u>A: TRMM at GSFC & LaRC</u>	

RBR_id	req	segment	req_type	s_verif	s_verif	a_verif	a_verif	text	interpre text	Clarif
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	key			method	stat	method	stat			Text
EOSD3960#A	5128	SDPS	RMA	analysis	un-verified	analysis <u>inspection</u>	<u>un-verified</u>	The SDPS function of Metadata Ingest and Update shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).	A: applicable DAACs <u>TRMM at GSFC & LaRC</u>	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3970#A	5132	SDPS	RMA	analysis	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The SDPS function of Information Searches on Local Holdings shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).	A: applicable DAACs <u>TRMM at GSFC & LaRC</u>	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD3980#A	5137	SDPS	RMA	analysis	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The SDPS function of Local Data Order Submission shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).	A: applicable DAACs <u>TRMM at GSFC & LaRC</u>	

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EOSD3990#A	5141	SDPS	RMA	analysis	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The SDPS function of Data Order Submission Across DAACs shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).	A: applicable DAACs <u>TRMM at GSFC & LaRC</u>	

RBR_id	req_key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD4000#A	5144	SDPS	RMA	analysis	un-verified	analysis <u>Inspection</u>	<u>un-verified</u>	The SDPS function of IMS Data Base Management and Maintenance Interface shall have an operational availability of 0.96 at a minimum (.999999 design goal) and an MDT of four (4) hours or less (6 minutes design goal).	A: applicable DAACs <u>TRMM at GSFC & LaRC</u>	

RBR_id	req_key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD4020#A	5149	SDPS	RMA	inspection analysis	un-verified	inspection analysis	<u>un-verified</u>	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 LaRC for CERES on TRMM	

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EOSD5000#A	5170	SDPS CSMS	Evolvable	analysis	un-verified	analysis <u>test</u>	<u>un-verified</u>	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-_have variable levels of reliability or operational availability		<u>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 data and services.</u>

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD5010#A	5171	SDPS CSMS	security <u>evolvable</u>	test	un-verified	test <u>Analysis</u>	<u>un-verified</u>	ECS shall enable extended provider support, i.e. client access of data and services at SCFs and DAACs, as authorized, without distinction to the client.		

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RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD5030#A	6466	SDPS CSMS	evolvable	analysis <u>Demo</u>	un-verified	analysis <u>Demo</u>	<u>un-verified</u>	ECS shall enable the addition of information search and retrieval services, e.g. WAIS, WWW.	A: Will provide WWW interface advertising service.	

RBR_id	req key	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpre text	Clarif Text
EOSD5110#A	5588	SDPS CSMS	procedural evolvable	analysis	un-verified	analysis	<u>un-verified</u>	ECS shall enable the separate use of data management, data processing, or data archive and distribution software components by a GCDIS data center. The GCDIS data centers will have full responsibility for integration of those components within their environment. Interfaces between the components must be developed to serve the mission of EOSDIS, but be made available for a GCDIS data center	The segment design specification will discuss compliance in DID 305/DV2. Additional demonstration of compliance will be documented in updates to DID 313/DV3 and 207/SE1.	