

Table 1. EOSD RbR Modifications
CCR 98-0051 Rev A
Data Reflects RTM baseline 12-16-97

req_by_rel	paragraph_id	object_id	Release	text	clarification	Req_Interpreter	req_category	segment_allotment	req_type	s_verification_method	s_verification_status	a_verification_method	a_verification_status	CCR
Cc	EOSD5000#B	8970	B0	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.	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.	ODCs do not apply for B0.	mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0742A
Ct	EOSD5000#B				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>“other data providers” will access ECS services as documented in the Data Provider ICD and API Description Document.</u>				evolvable <u>procedural</u>					
Cc	EOSD5010#B	8971	B0	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.			mission essential	SDPS CSMS	security	test	un-verified	test	un-verified	97-0742A
Ct	EOSD5010#B				<u>“extended provider support” of ECS services is documented in the Data Provider ICD and API Description Document.</u>				security <u>procedural</u>					
Cc	EOSD5020#B	8972	B0	ECS software, hardware, and interfaces shall enable transparent portability across heterogeneous site architectures, i.e. performing the same function at different ECS sites that may have different hardware implementations.			mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0746A
Ct	EOSD5020#B				<u>ECS complies by using industry standards.</u>				evolvable <u>procedural standards</u>					
Cc	EOSD5030#B	8973	B0	ECS shall enable the addition of information search		ECS will provide WWW interface	mission fulfillment	SDPS CSMS	evolvable	demo	un-verified	demo	un-verified	97-0742A

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				and retrieval services, e.g. WAIS, WWW.										
Ct	EOSD5030#B				<u>ECS shall provide an interface to search and retrieval services through an HTML I/F.</u>				evolvable procedural					
Cc	EOSD5040#B	8974	B0B	ECS shall enable the combination of services from ECS and other data providers in arbitrary, i.e. non-predefined, ways as needed by users to conduct EOS science.		The client subsystem allows a user to select which services he wishes to use, integrate his own services, and use the services in any order the user wishes.	mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0742A
Ct	EOSD5040#B				<u>“services from ECS and other data providers” will access ECS services as documented in the Data Provider ICD and API Description Document. Users requesting combinations of services are constrained only by the rules for producing valid results with the services.</u>				evolvable procedural					
Cc	EOSD5070#B	8976	B1	ECS shall enable expansion to GByte networks including the ability to provide increased volume of data distribution/access..			mission fulfillment	CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0742A
Ct	EOSD5070#B				<u>“GByte networks” describes data flow capacity not available when these requirements were created. ECS has layered communications architecture, which facilitates the adoption of technology enhancements.</u>				evolvable procedural					
Cc	EOSD5100#B	9643	B0	ECS shall enable evolution of ECS to be a federated unit within GCDIS, e.g. GCDIS data centers should not have to negotiate different interfaces with each DAAC.		SMC-5320, ESN-0006, ESN-0080, SDPS0050, SDPS0080, SDPS0100, SDPS0130, IMS-0030, and IMS-0040	mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-1449B

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						demonstrate ECS federation								
Ct	EOSD5100#B				SMC-5320, ESN-0006, ESN-0080, SDPS0050, SDPS0080, SDPS0100, SDPS0130, IMS-0030, and IMS-0040 demonstrate ECS federation	SMC-5320, ESN-0006, ESN-0080, SDPS0050, SDPS0080, SDPS0100, SDPS0130, IMS-0030, and IMS-0040 demonstrate ECS federation			evolvable procedural					
Cc	EOSD5110#B	8013	B0	ECS shall enable the separate use of ECS 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.	mission fulfillment	SDPS CSMS	procedural evolvable	analysis	un-verified	analysis	un-verified	97-0843A
Ct	EOSD5110#B				A "GCDIS data center" will access and use ECS services as documented in the Data Provider ICD and API Description Document.									
Cc	EOSD5200#B	8978	B0 B1	ECS shall enable the addition of the following as required for discipline specific user support: unique fields to metadata, unique products for browse, and unique documents for data products guides. These activities shall not require software changes to ECS.	Applicable to all ECS development. B1 capability includes document support.		mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0843A
Ct	EOSD5200#B				Applicable to all ECS development. B1 capability includes document support. "discipline specific user support" is documented in the Data				evolvable procedural					

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					<u>Provider ICD and API Description Document.</u>									
Cc	EOSD5210#B	8979	B0	ECS shall enable development of a local user interface that accesses the core metadata and browse data base servers, bypassing the delivered "core" user interface. This server interface shall be configuration controlled and documented for the programmers' use.			mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0843A
Ct	EOSD5210#B				<u>Capability of "development of a local user interface" is documented in the Data Provider ICD and API Description Document.</u>				evolvable procedural					
Cc	EOSD5220#B	8980	B0	ECS shall enable addition of new storage devices, if required, to serve discipline-unique and site-unique archiving needs. An applications programming interface that permits the DAACs to integrate this addition to the DAAC shall be developed and configuration controlled.			mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0843A
Ct	EOSD5220#B				<u>A "new storage device" describes capacity or capability not available when these requirements were created. ECS DSS has the capability to logically support multiple File and Storage Management Systems, which facilitates the adoption of technology enhancements.</u>				evolvable procedural					
Cc	EOSD5230#B	8981	B0	ECS shall enable the addition of new data types similar to previous types with minimal changes to the software of the core system.			mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0742A
Ct	EOSD5230#B				<u>Capability to "enable the addition of new data types (new 'ESDTs')" is documented in the</u>				evolvable procedural					

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					<u>Data Provider ICD and API Description Document.</u>									
Cct	EOSD5240#B	9154	B1	ECS shall enable addition of new data types significantly different from previous types with minimal changes to the core architecture.			mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0742A
Ct	EOSD5240#B				<u>Capability to “enable the addition of new data types (new ‘ESDTs’)” is documented in the Data Provider ICD and API Description Document.</u>				evolvable <u>procedural</u>					
Cc	EOSD5250#B	8983	B0	ECS shall enable access to configuration controlled applications programming interfaces that permit development of DAAC-unique value added services and products where DAAC-unique value added services may consist of one or more of the following types of developments: a. Visualization utilities and products b. Data sets and inter-data set usability utilities and products c. Data analysis utilities d. Special subsetting capabilities (e.g. dynamic) e. On-line analysis functions f. New search and access techniques g. Data acquisition planning and utilities h. Experimental QA techniques i. Non-digital data utilities and products j. System Management Functions			mission fulfillment	SDPS CSMS	evolvable	analysis	un-verified	analysis	un-verified	97-0843A
Ct	EOSD5250#B				<u>Capability to “permit development of DAAC-unique value added services and products” is documented in the Data Provider ICD and API Description Document.</u>				evolvable <u>procedural</u>					
Cc	EOSD5300#B	9159	B0	ECS shall provide APIs and infrastructure for science user extensions and direct search and access to data.			mission fulfillment	SDPS CSMS	functional	demo	un-verified	demo	un-verified	97-0843A
Ct	EOSD5300#B				<u>The ECS “APIs and infrastructure for science user</u>				functional <u>procedural</u>					

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					extensions ...” is documented in the Data Provider ICD and API Description Document.	APIs for this requirement.			al					
Cc	EOSD5310#B	8181	B0	ECS shall support science user development of new search and access methods that dynamically browse the data and metadata. These methods shall be developed at the scientist's facility.			mission fulfillment	SDPS CSMS	functional	test	un-verified	test	un-verified	97-0742A
Ct	EOSD5310#B		C		The “science user development” is documented in the Data Provider ICD and API Description Document.	SDPS0092 provides the support for this requirement.			functional procedural					
Cc	EOSD5410#B	8985	FPB	ECS shall enable the existence of additional ISTs if desired by the PI/TL to accommodate Co-Investigators and Team Members, who may be at geographically separate locations.			mission essential	FOS	evolvable	demo	un-verified	demo	un-verified	97-0742A
Ct	EOSD5410#B								evolvable procedural					