

**Table 1: L3 text changes**

L3 paragraph id	req_key	title	CCR_id	text
EOSD5250	120	DAAC Unique Value Added Services		<p>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:</p> <ol style="list-style-type: none"> <li>a. Visualization utilities and products</li> <li>b. Data sets and inter-data set usability utilities and products</li> <li>c. Data analysis utilities</li> <li>d. Special subsetting capabilities (e.g. dynamic)</li> <li>e. On-line analysis functions</li> <li>f. New_search <u>and access</u> techniques</li> <li>g. Data acquisition planning and utilities</li> <li>h. Experimental QA techniques</li> <li>i. Non-digital data utilities and products</li> <li>j. System Management Functions</li> </ol>
EOSD5300	121	APIs & Infrastructure for Sc Users		<p>ECS shall provide APIs and infrastructure for science user extensions and direct <u>search and access</u> to data.</p>
EOSD5310	122	Support Science User Development		<p>ECS shall support science user development of new search <u>and access</u> methods that dynamically browse the data and metadata. These methods shall be developed at the scientist's facility.</p>
EOSD5320	123	Science User Search Methods		<p>ECS shall be able to interactively insert new search <u>and access</u> methods developed by science users.</p>
IMS-1765	1462	API capabilities		<p>The IMS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of</p>

				<p>the following extensions to the ECS IMS by the DAACs, ECS and other users:</p> <ul style="list-style-type: none"> <li>a. Addition of metadata fields that are unique to the data maintained at a specific DAAC</li> <li>b. Addition of documents for use as guide metadata for DAAC-specific data products</li> <li>c. Development of DAAC-specific data acquisition request utilities</li> <li>d. Support of data visualization utilities for DAAC-specific products</li> <li>e. Support of DAAC-specific data analysis utilities</li> <li>f. Development of DAAC-unique metadata searching <del>and access</del> services that will operate independent of the delivered ECS IMS services</li> <li>g. Development of a local user interface that can bypass the delivered ECS user interface for accessing DAAC-unique metadata searching services</li> </ul>
SDPS0092	535	Supp dev of new search techniques		<p>The SDPS shall support science user development of new search <u>and access</u> techniques that dynamically browse the data and metadata.</p>
SDPS0093	1281	<u>General science user access</u>		<p>The SDPS shall permit general science user access to these new search <u>and access</u> techniques but limit system resource usage <del>to 10% of the information management, data processing, archiving, and distribution resources otherwise used for production and distribution of Level 2 and Level 3 products</del> <u>to ensure no interference with routine production, data distribution, or search and access functions.</u></p>
SDPS0094	537	Isolate resrces for dev of scnce sw		<p>SDPS processing resources used for the development or execution of science software for new search <u>and access</u> techniques shall be isolated to ensure no adverse impact to:</p> <ul style="list-style-type: none"> <li>a. the correct operation of ECS components</li> <li>b. system data integrity</li> <li>c. the ability of ECS to meet production and distribution schedules</li> </ul> <p>Note: It is assumed that new search techniques will be developed and installed by means of components separate from the ECS. All requests for data or</p>

				services by the new search techniques are assumed to be already factored into the existing ECS request load described in this specification.
--	--	--	--	--

**Table 2: RBR text changes**

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	CCR	text	req_interpretation_text
SDPS0110# B	6144	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>		The SDPS shall be responsible for coordination of the transfer of production and expedited science and engineering data from EDOS SDPF and the IPs	<del>B: IP for operational APPLIES ONLY TO MSFC DAAC AND LARC DAAC; ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS.</del> NOTE: At this time EDOS is still shown in the L3 here even an approved ESDIS pending CCR 505-01-41-066 will remove the EDOS I/F for this requirement ; at this time no L4s need to be removed until the CCR goes through the ECS CCR.
<u>EOSD5310</u> <u>#B</u>	<u>NEW</u>	<u>mission fulfillment</u>	<u>SDPS/CSMS</u>	<u>functional</u>	<u>test</u>	<u>un-verified</u>	<u>test</u>	<u>un-verified</u>		<u>ECS shall support science user development of new search and access methods that dynamically browse the data and metadata. These methods shall be</u>	

										<u>developed at the scientist' facility.</u>
IMS-1765#B	5390	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>		<p>The IMS shall be developed with configuration-controlled application programming interfaces (APIs) that will be capable of supporting development of the following extensions to the ECS IMS by the DAACs, ECS and other users:</p> <ul style="list-style-type: none"> <li>a. Addition of metadata fields that are unique to the data maintained at a specific DAAC</li> <li>b. Addition of documents for use as guide metadata for DAAC-specific data products</li> <li>c. Development of DAAC-specific data acquisition request utilities</li> <li>d. Support of data visualization utilities for DAAC-specific products</li> <li>e. Support of DAAC-specific data analysis utilities</li> <li>f. Development of DAAC-unique metadata search and access services that will operate independent of the delivered ECS IMS services</li> <li>g. Development of a local user interface that can bypass the delivered ECS user interface for accessing</li> </ul>

										DAAC-unique metadata search and access services	
--	--	--	--	--	--	--	--	--	--	---	--

**TABLE 3: L4 Change Table**

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
S-CLS-12480	8191	B	functional	incremental	test	<u>un-verified</u>			The WKBCH CI shall provide the capability to request any of the services available for the individual items in the output of a Metadata search.