

DADS RbR CHANGES TABLE 2 - CCR 97-0423A

RBR_id	req_key	req_category	segment	req_type	s_verif_method	s_verif_status	a_verif_method	a_verif_status	text	interpretation text	clarification text
DADS0488# B	9079	mission critical	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS	No archive at Rel-A for early interface testing

DSS L4 REQUIREMENTS CHANGES TABLE 3 - CCR 97-0423A

L4 id	object key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
S-DSS-03746	9230	A	functional	approved	test	<u>unverified</u>			The SDSRV CI's MD Component shall provide storage for <u>the</u> checksum metadata value associated with each file of each data granule stored in the STMGT CI.
S-DSS-20030	3617	A	functional	approved	demo	<u>unverified</u>			The STMGT CI shall check each <u>storage request</u> Insert Request it receives for the correct type of data in all fields. Fields that shall be checked include <u>rRequest iIdentifier</u> , date of request, <u>Ppriority Iinformation</u> , data type and original <u>file</u> identifier.
S-DSS-20070	3623	A	functional	approved	demo	<u>unverified</u>			The STMGT CI shall <u>accept</u> check each <u>Aarchive Sstatus Rrequests</u> and <u>return current status</u> for each request identifier. it receives for the correct type of data in all fields. Fields that shall be checked include <u>Current Request Identifier</u> and <u>Request Identifier</u> of previous Insert or Retrieve Requests to be <u>statused</u> .
S-DSS-20622	9226	A	functional standards	approved	test	<u>unverified</u>			The STMGT CI shall provide to the SDSRV CI's MD Component a copy of the <u>compute a checksum</u> against each file stored as a result of a <u>storage request</u> , and provide that checksum to the originator of the request value calculated upon initial receipt of each file in each data granule stored in the archive.
S-DSS-20623	9233	A	functional	approved	test	<u>unverified</u>			The STMGT CI shall <u>compute a</u> recalculate the checksum value of each file associated with <u>against</u> each <u>file</u> retrieved as a result of a <u>retrieval request</u> data granule and compare <u>that checksum</u> against the <u>checksum provided in the request</u> it with the checksum metadata value for that file stored in the SDSRV CI's MD Component for <u>accuracy</u> .
S-DSS-20624	8891	<u>B0</u> <u>B1</u>	functional	approved	test	unverified	96-1353A		The STMGT CI shall provide a mechanism to <u>statistically</u> monitor the checksum errors rate of archive media <u>for purposes of statistical analysis</u> .
S-DSS-20650	11981	B0	functional	approved	test	unverified	97-0013A		The STMGT CI shall provide operations staff the capability to <u>specify the products to be backed up</u> at both local and offsite archives. <u>generate a backup of products</u> as specified by operations staff.
S-DSS-20740	11664	A	functional	approved	demo	unverified	96-		The STMGT CI shall provide operations staff the capability to restore <u>the</u>

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		<u>B0</u>					1227		<u>primary copy of a product from either the local backup copy or the offsite backup copy. data from the backup copy that has been safe-stored at an external facility.</u>
S-DSS-20860	8902	B1	functional	approved	test	unverified	96-1353A		The STMGT CI shall provide <u>to the MSS</u> a mechanism to monitor the <u>data on the</u> performance of the ECS archival storage system.

DSS L4 REQUIREMENTS ADDITION TABLE 4 - CCR 97-0423A

L4 id	object key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
<u>S-DSS-04382</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The SDSRV CI shall maintain a backup indicator, for each data type, that specifies whether or not backup copies are to be created and maintained for that data type.</u>
<u>S-DSS-04384</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The SDSRV CI shall request that the STMGT CI create both a local backup copy and off-site backup copy of a data product, as determined by the data product's backup indicator.</u>
<u>S-DSS-04386</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The SDSRV CI shall maintain the location of each primary copy of a locally-archived data product, and the location of the product's local and off-site backup copies, if they exist.</u>
<u>S-DSS-04900</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The SDSRV CI shall, at the direction and approval of the operations staff, retrieve an offsite copy of a product.</u>
<u>S-DSS-20410</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The STMGT CI shall notify the operator upon the failure of retrieval of a local or offsite backup copy.</u>
<u>S-DSS-20627</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The STMGT CI shall use checksums to determine the quality of the products retrieved.</u>
<u>S-DSS-20632</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The STMGT CI shall terminate the retrieval of a product if the product cannot be retrieved or fails the quality check.</u>
<u>S-DSS-20634</u>	<u>new</u>	<u>B1</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The STMGT CI shall notify the operator and automatically retrieve a local backup copy of product upon the failure of the retrieval of the primary copy of the product.</u>
<u>S-DSS-80250</u>	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The DRPHW CI shall have sufficient capacity to backup 2% of the primary copies of locally-archived data products.</u>
<u>S-DSS-80260</u>	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The DRPHW CI, at LaRC, shall have the storage capacity to meet the GSFC DAAC requirements for off-site backup.</u>
<u>S-DSS-</u>	<u>new</u>	<u>B0</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>unverified</u>			<u>The DRPHW CI, at GSFC, shall have sufficient storage capacity to store the</u>

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<u>80270</u>									<u>offsite backup copies required by the EDC, LaRC, NSIDC and the ORNL DAACs.</u>
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DSS L4 REQUIREMENTS DELETION TABLE 5 - CCR 97-0423A

L4 id	object key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
S-DSS-03075	-10588	A	functional	approved	test				The SDSRV CI shall process Data Requests that request the staging of TAR Files, containing PGE Binaries and scripts, to a specified location.
S-DSS-03412	-3465	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for L0-L4 Data.
S-DSS-03414	-11613	A	interface	approved	demo	unverified	96-1176A		The SDSRV CI shall interface with the STMGT CI to provide storage for Ancillary Data.
S-DSS-03420	-3468	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for calibration data.
S-DSS-03440	-3470	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for Science Software Archive Packages.
S-DSS-03460	-11948	B0	interface	approved	test	unverified	97-0013A		The SDSRV CI shall interface with the STMGT CI to provide storage for the AM-1 spacecraft's FDF Orbit Data.
S-DSS-03480	-3474	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for instrument calibration data.
S-DSS-03500	-3476	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for instrument characterization data.
S-DSS-03520	-9739	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for instrument historical data.
S-DSS-03560	-3479	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for Orbit/Attitude data.
S-DSS-03580	-9743	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for Production History.
S-DSS-03620	-3483	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for QA Statistics.
S-DSS-03640	-3485	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for scientific calibration data.
S-DSS-03660	-8819	B0	interface	approved	test	unverified	96-1353A		The SDSRV CI shall interface with the STMGT CI to provide storage for spacecraft historical data.
S-DSS-03680	-3488	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for correlative data.
S-DSS-03700	-11950	B1	interface	approved	test	unverified	97-0013A		The SDSRV CI shall interface with the STMGT CI to provide storage for special Data Products.

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S-DSS-03712	-3492	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for Research results (articles, algorithms, data sets, software).
S-DSS-03720	-3493	A	interface	approved	demo				The SDSRV CI shall interface with the STMGT CI to provide storage for V0 migration data.
S-DSS-03741	-8822	B0	functional	approved	test	unverified	96-1353A		The SDSRV CI shall interface with the STMGT CI to provide storage for NMC data.
S-DSS-03742	-8823	B1	functional	approved	test	unverified	96-1353A		The SDSRV CI shall interface with the STMGT CI to provide storage for First Look Products.
S-DSS-03743	-8824	B1	functional	approved	test	unverified	96-1353A		The SDSRV CI shall interface with the STMGT CI to provide storage for Reanalysis Products.
S-DSS-03744	-8825	B1	functional	approved	test	unverified	96-1353A		The SDSRV CI shall interface with the STMGT CI to provide storage for Final Analysis Products.
S-DSS-03745	-4903	A	interface						The SDSRV CI shall interface with the STMGT CI to provide storage for File Format Descriptions (e.g., HDF Spec.).
S-DSS-20050	-3620	A	functional	approved	demo				The STMGT CI shall check each request it receives to retrieve data. Retrieve Request it receives for correct file checksum, type of data in all fields. Fields that shall be checked include Request Identifier, date of request, date and time for requested data, Priority Information, and data type.
S-DSS-20440	-3682	A	functional	approved	demo				The STMGT CI shall be capable of producing backup archive media which has a fully described physical file organization.
S-DSS-20870	-8903	B1	functional	approved	test	unverified	96-1353A		The STMGT CI shall provide operations staff the capability to view/display performance information on the storage system.
S-DSS-21366	-10948	A	functional	approved	demo	unverified	96-1020		The STMGT CI shall provide storage for the Metadata associated with the Data Products listed in Appendix F of the current version of 304-CD-005.

TABLE 6 - RbR to L4 Link Additions - CCR 97-0423A

RBR id	L4 id
DADS0488#B	S-DSS-03292
DADS0488#B	S-DSS-03305
DADS0488#B	S-DSS-03308
DADS0488#B	S-DSS-20000
DADS0488#B	S-DSS-20005
DADS0490#B	S-DSS-03292
DADS0490#B	S-DSS-03305
DADS0490#B	S-DSS-03308
DADS0490#B	S-DSS-20000
DADS0490#B	S-DSS-20005
<u>DADS1370#B</u>	<u>S-DSS-20627</u>
<u>DADS1370#B</u>	<u>S-DSS-20632</u>
DADS1710#B	S-DSS-20430
DADS2270#B	S-DSS-04386
<u>DADS2270#B</u>	<u>S-DSS-04900</u>
DADS2270#B	S-DSS-80250
DADS2270#B	S-DSS-80260
DADS2270#B	S-DSS-80270
DADS2276#B	S-DSS-04382
<u>DADS2276#B</u>	<u>S-DSS-04384</u>
DADS2276#B	S-DSS-04386
<u>DADS2276#B</u>	<u>S-DSS-20410</u>
<u>DADS2276#B</u>	<u>S-DSS-20634</u>

TABLE 7 - RbR to L4 Link Deletions - CCR 97-0423A

DADS1710#B	S-DSS-20110
DADS1710#B	S-DSS-20120