

Attachment 1

Summary of Proposed Changes

Proposed Changes as proposed in the original version of this CCR:

1. Move requirements associated with Data Availability Schedules (S-DSS-00734, S-DSS-01525, S-DSS-20442, S-DSS-20444) to Release B because no external data provider is providing Data Availability schedules to Release A. (See Table 1.1)
2. Move S-DSS-01190, 03369, 04090, 20255, 20370 to Release B and remove all links between these Level 4 requirements and Release A RBRs. These Level 4s are not in the scope of Release A. (See Table 1.2)
3. Delete S-DSS-20980, 20990, 21000, 21010, 21020 because SDSRV does not access files in the DRPHW CI; instead SDSRV accesses files in the WKSHW CI as specified by S-DSS-20985, 20995, 21005, 21025. (See Table 1.3)
4. Delete S-DSS-21640 and S-DSS-21650 because they are reworded versions of S-DSS-01880 and S-DSS-01890, respectively. (See Table 1.4)
5. Delete S-DSS-00820 because MSS is providing this capability, not DSS. (See Table 1.5)
6. Move S-DSS-00702, S-DSS-00704, S-DSS-10292, and S-DSS-30797 to Release B because the SDSRV CI does not send management directives to other CIs in Release A (See Table 1.6). These requirements are all linked to DADS0100#A which is implemented by providing a capability to ingest documents describing schedules, CM directives, and security directives. New links are proposed for DADS0100#A in Item #7, below.
7. Link S-INS-00221, S-INS-00222, S-INS-00225, S-INS-00226, S-INS-00228, S-INS-00230, to DADS0100#A as shown. (See Table 1.7)

Proposed Changes which address issues identified during the review of the original version of this CCR:

8. Move S-DSS-00720 to Release B. This Level 4 is not in the scope of Release A. IMS-0460#A will be implemented by the MSS trouble-ticket capability. Link trouble-ticket L4s (C-MSS-57500, C-MSS-57530, C-MSS-57540, C-MSS-57560, C-MSS-57580, C-MSS-57600, C-MSS-57610, C-MSS-57620, C-MSS-57630) to IMS-0460#A. (See Table 1.8)
9. Move S-DSS-01160 to Release B because it is not in the scope of Release A. Modify S-DSS-01160 so that the described functionality is consistent with the implementation. (See Table 1.9)
10. Delete S-DSS-21035 and S-DSS-21030 because the AMASS COTS product does not provide this capability and the capability is not required in order to satisfy Level 3 requirements. (See Table 1.10)
11. Link S-DSS-01400 and S-DSS-01430 to DADS0901#A. (See Table 1.11)

Reference Tables (Tables 1-1 through 1-11)

Table 1.1 Move S-DSS-00734, S-DSS-01525, S-DSS-20442, S-DSS-20444 to Release B because no external data provider is providing Data Availability schedules to Release A.

S-DSS-00734	<u>AB</u>	3313	The SDSRV CI shall provide the capability to store Data Availability Schedules.		functiona l	DADS20 20#B	6161	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a. b. IPs c. ADCs d. ODCs e. Other DADS f. TRMM (SDPF)	functional	APPLIES ONLY TO GSFC DACC AND LARC DAAC; ASTER GDS interfaces to EDC DAAC only; ASTER GDS DATA AVAILABILITY SCHEDULES (TO EDC AND DAAC ONLY)
S-DSS-01525	<u>AB</u>	3399	The SDSRV CI shall accept Subscriptions for Data Availability Schedules from the PLANG CI.		interface	DADS20 20#B	6161	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a. b. IPs c. ADCs d. ODCs e. Other DADS f. TRMM (SDPF)	functional	APPLIES ONLY TO GSFC DACC AND LARC DAAC; ASTER GDS interfaces to EDC DAAC only; ASTER GDS DATA AVAILABILITY SCHEDULES (TO EDC AND DAAC ONLY)
S-DSS-20442	<u>AB</u>	3683	The STMGT CI shall provide the capability to archive Data Availability Schedules.		functiona l	DADS20 20#B	6161	Each DADS shall have the capability to receive data availability schedules at a minimum, from: a. b. IPs c. ADCs d. ODCs e. Other DADS f. TRMM (SDPF)	functional	APPLIES ONLY TO GSFC DACC AND LARC DAAC; ASTER GDS interfaces to EDC DAAC only; ASTER GDS DATA AVAILABILITY SCHEDULES (TO EDC AND DAAC ONLY)
S-DSS-20444	<u>AB</u>	3684	The STMGT CI shall provide the capability to retrieve Data Availability Schedules.		functiona l	DADS20 20#B	6161	Each DADS shall have the capability to receive data availability schedules at a minimum, from:	functional	APPLIES ONLY TO GSFC DACC AND LARC DAAC; ASTER GDS interfaces to EDC DAAC only; ASTER GDS

								a. b. IPs c. ADCs d. ODCs e. Other DADS f. TRMM (SDPF)		DATA AVAILABILITY SCHEDULES (TO EDC AND DAAC ONLY)
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Table 1.2 Move S-DSS-01190, 03369, 03865, 04090, 20255, 20370 to Release B. These Level 4s are not in the scope of Release A.

S-DSS-01190	<u>AB</u>	3365	The SDSRV CI shall provide the capability for operations staff to view the resources used and allocated by a client.		functiona l	IMS-1660#B	5381	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DSS-01190						IMS-1660#A	5567	The IMS shall provide to the SMC a full and complete history of all IMS resources used by science investigators including, at a minimum: a. CPU utilization b. Amount of user storage c. Connect time d. Session histories	interface	
S-DSS-01190						DADS1470#A	4486	Each DADS shall manage element resource utilization.	functional	A: Report status and make status available for display
S-DSS-01190						DADS1470#B	3557	Each DADS shall manage element resource utilization.	functional	B: Full capability
S-DSS-03369	<u>AB</u>	9546	The SDSRV CI shall be capable of receiving expedited data from instruments.			DADS1235#A	6135	Each DADS shall temporarily store expedited data received for 48 hours or until production data are available (whichever comes first).	performanc e functional	At Release A. expedited data will be stored. The mechanism to automatically delete it after 48 hours or when production on data are available will not be available until Release B.
S-DSS-03369						DADS1235#B	6136	Each DADS shall temporarily store expedited data received for 48 hours or until production data are available (whichever comes first).	performanc e functional	At Release A. expedited data will be stored. The mechanism to automatically delete it after 48 hours or when production on data are available will not be available until Release B.

S-DSS-04090	<u>AB</u>	9805	The SDSRV CI shall supply Metadata associated with FDF orbit data for AM-1 instruments to the DDIST CI.		interface	DADS0175#A	4059	The GSFC DADS shall receive from FDF, at a minimum : a. Orbit data b. Attitude data c. Metadata	functional	A: receive only. Early interface testing for AM-1.
S-DSS-04090						DADS0175#B	3470	The GSFC DADS shall receive from FDF, at a minimum : a. Orbit data b. Attitude data c. Metadata	functional	B: full capability, THE GSFC DADS WILL RECEIVE REPAIRED ORBIT AND REPAIRED ATTITUDE DATA FOR AM-1 FROM FDF
S-DSS-20255	<u>AB</u>	3664	If an uncorrectable error occurs during retrieval operations, STMGT CI shall automatically recreate the contents on new media.		functiona l	DADS1375#B	3552	Each DADS shall provide automatic management and copying/refresh of archive media.	functional	B: Copying of archive media after media failures
S-DSS-20370	<u>AB</u>	3676	The STMGT CI shall use openly published and non-proprietary data formats to store data.		functiona l	DADS1710#B	3570	The DADS shall comply with evolving guidelines and standards in such areas as file storage, storage management, and backup where appropriate.	functional	
S-DSS-20370						DADS1720#B	3571	The FSMS at each DADS shall be based on published and open architectures which fully describe the physical organization and structures of files.	functional	
S-DSS-20370						DADS1720#A	4633	The FSMS at each DADS shall be based on published and open architectures which fully describe the physical organization and structures of files.	functional	
S-DSS-20370						DADS1710#A	4570	The DADS shall comply with evolving guidelines and standards in such areas	functional	

								as file storage, storage management, and backup where appropriate.		
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Table 1.3 Delete S-DSS-20980, 20990, 21000, 21010, 21020 because SDSRV does not access files in the DRPHW CI; instead SDSRV accesses files in the WKSHW CI as specified by S-DSS-20985, 20995, 21005, 21025.

S-DSS-20980	A	3742	The STMGT CI shall provide the SDSRV CI the capability to open files on archive storage media in the DRPHW CI.		functional	DADS0460#A	4098	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-20980						DADS2410#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-20980						DADS2430#A	4493	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-20980						DADS0490#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-20980						DADS0460#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-20980						DADS2430#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-20980						DADS2410#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-20980						DADS0490#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-20980						DADS0680#B	3514	Each DADS shall have the capability	functional	Capacity issue

								to support all required requests and shall grow as demand expands.		
S-DSS-20980						DADS0488#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS
S-DSS-20990	A	3744	The STMGT CI shall provide the SDSRV CI the capability to close files on archive storage media in the DRPHW CI.		functional	DADS0460#A	4098	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-20990						DADS2430#A	4493	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-20990						DADS2410#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-20990						DADS0490#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-20990						DADS0460#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-20990						DADS2430#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-20990						DADS2410#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	

S-DSS-20990						DADS0680#B	3514	Each DADS shall have the capability to support all required requests and shall grow as demand expands.	functional	Capacity issue
S-DSS-20990						DADS0490#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-20990						DADS0488#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS
S-DSS-21000	A	3746	The STMGT CI shall provide the SDSRV CI the capability to read information from files on archive storage media in the DRPHW CI.		functional	DADS0460#A	4098	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21000						DADS0490#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21000						DADS2430#A	4493	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21000						DADS2410#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21000						DADS0460#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21000						DADS0680#B	3514	Each DADS shall have the capability to support all required requests and shall grow as demand expands.	functional	Capacity issue

S-DSS-21000						DADS04 90#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21000						DADS24 30#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21000						DADS24 10#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21000						DADS04 88#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS
S-DSS-21010	A	3748	The STMGT CI shall provide the SDSRV CI the capability to write information into files on archive storage media in the DRPHW CI.		functional	DADS24 30#A	4493	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21010						DADS24 10#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21010						DADS04 60#A	4098	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21010						DADS04 90#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21010						DADS04 60#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required	functional	B: Release B products for the missions as described in the table in the SOW.

								for Standard Product production by the PGS.		
S-DSS-21010						DADS2410#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21010						DADS2430#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21010						DADS0680#B	3514	Each DADS shall have the capability to support all required requests and shall grow as demand expands.	functional	Capacity issue
S-DSS-21010						DADS0488#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS
S-DSS-21010						DADS0490#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21020	A	3750	The STMGT CI shall provide the SDSRV CI the capability to allocate archive storage devices for Service Request processing in the DRPHW CI.		functional	DADS2430#A	4493	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21020						DADS2410#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21020						DADS0490#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-						DADS04	4098		functional	A: Release A products for

21020						60#A		Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.		the missions as described in the table in the SOW.
S-DSS-21020						DADS04 60#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21020						DADS24 30#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21020						DADS24 10#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21020						DADS06 80#B	3514	Each DADS shall have the capability to support all required requests and shall grow as demand expands.	functional	Capacity issue
S-DSS-21020						DADS04 90#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21020						DADS04 88#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS

Table 1.4 Delete S-DSS-21640 and S-DSS-21650 because they are reworded versions of S-DSS-01880 and S-DSS-01890, respectively.

S-DSS-21640	A	4015	The Science Management within the Data Server shall support making archive data associated with a pre-defined ECS standard format available to the network in that format within an average of 2 minutes.		performance	DADS3126#B	3646	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	
S-DSS-21640						DADS3126#A	4539	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	
S-DSS-21650	A	4016	The Science Management within the Data Server shall support making archive data associated with a pre-defined ECS standard format available to the network in a different format within an average of 5 minutes.		performance	DADS3126#A	4539	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	
S-DSS-21650						DADS3126#B	3646	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	
S-DSS-01880	A	3989	The Science Data Server shall support making		performance	DADS3126#A	4539	Each DADS shall make archive data,	performance	

			archive data associated with a predefined ECS standard format available to the network in that format within an average of 2 minutes.					associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.		
S-DSS-01880						DADS3126#B	3646	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	
S-DSS-01890	A	3990	The Science Data Server shall support making archive data associated with a predefined ECS standard format available to the network in a different format within an avg. of 5 minutes.		performance	DADS3126#B	3646	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	
S-DSS-01890						DADS3126#A	4539	Each DADS shall make archive data, associated with a pre-defined ECS standard format, that is requested for communications network delivery available to the network in a different ECS standard format within an average of 5 minutes after the request for that data.	performance	

Table 1.5 Delete the following requirement because MSS is providing this capability, not DSS.

S-DSS-00820	A	3323	The SDSRV CI shall provide a mechanism to control changes to the Configuration Management Data.		functional	DADS0901#A	4122	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management	functional	A: Full fault management reporting to SMC/LSM
S-DSS-00820						DADS1850#B	3580	Each DADS shall utilize the configuration management toolkit provided by the SMC.	functional	
S-DSS-00820						DADS1850#A	4642	Each DADS shall utilize the configuration management toolkit provided by the SMC.	functional	
S-DSS-00820						DADS0901#B	3524	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management c. Accounting Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management	functional	B: Full capability - CM, Accountability, Performance, Security, Scheduling

Table 1.6 Move S-DSS-00702, S-DSS-00704, S-DSS-10292, and S-DSS-30797 to Release B because the SDSRV CI does not send management directives to other CIs in Release A.

S-DSS-00702	<u>AB</u>	3307	The SDSRV CI shall be capable of sending management directives to DDSRV CI.		interface	DADS0100#B	3461	Each DADS shall receive management directives from the SMC.	functional	B: TBD
S-DSS-00702						DADS0100#A	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-DSS-00704	<u>AB</u>	3308	The SDSRV CI shall be capable of sending management directives to DDIST CI.		interface	DADS0100#A	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-DSS-00704						DADS0100#B	3461	Each DADS shall receive management directives from the SMC.	functional	B: TBD
S-DSS-10292	<u>AB</u>	3613	The DDSRV CI shall receive management directives from the SDSRV CI.		interface	DADS0100#A	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-DSS-10292						DADS0100#B	3461	Each DADS shall receive management directives from the SMC.	functional	B: TBD
S-DSS-30797	<u>AB</u>	3892	The DDIST CI shall receive management directives from the SDSRV CI.		interface	DADS0100#B	3461	Each DADS shall receive management directives from the SMC.	functional	B: TBD
S-DSS-30797						DADS0100#A	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD

Table 1.7 Link the following INGST CI L4s to DADS0100#A as shown:

S-INS-00221	A	4052	The INGST CI shall interactively accept Document Ingest Requests from authorized science users for ingest of a single collection of document Data from a location accessible via the ESN. The collection of document Data shall describe one or more document Data Granules.		functional 1	<u>DADS01</u> <u>00#A</u>	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-INS-00222	A	4053	The INGST CI shall check the Document Ingest Request to verify that the date/time prior to which the data will remain available is a valid date/time in a Document Ingest Request entered interactively by a science user.		functional 1	<u>DADS01</u> <u>00#A</u>	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-INS-00225	A	4055	The INGST CI shall determine the data provider and assign the Priority Information for a Document Ingest Request entered interactively by a science user.		functional 1	<u>DADS01</u> <u>00#A</u>	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-INS-00226	A	4056	The INGST CI shall automatically determine the data volume for each file in the list of document granule files for an interactively entered Document Ingest Request.		functional 1	<u>DADS01</u> <u>00#A</u>	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD
S-INS-00228	A	4058	The INGST CI shall report to the Error Log an unauthorized attempt to interactively request		functional 1	<u>DADS01</u> <u>00#A</u>	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD

			ingest of document data.						
S-INS-00230	A	4060	<p>The INGST CI shall report status to the interactive submitter of a Document Ingest Request for the following:</p> <ul style="list-style-type: none"> a. File transfer failure b. File size discrepancy c. Invalid Data Type Identifier d. Missing required metadata e. Metadata parameters out of range f. Data conversion failure g. Failure to archive data h. Inability to transfer data within the specified time window i. Unauthorized science user j. Missing required request information k. Successful archive of the data 	functiona 1	<u>DADS01</u> <u>00#A</u>	4051	Each DADS shall receive management directives from the SMC.	functional	A: TBD

Table 1.8 Move S-DSS-00720 to Release B. This Level 4 is not in the scope of Release A. IMS-0460#A will be implemented by the MSS trouble-ticket capability. Link trouble-ticket L4s as shown:

S-DSS-00720	<u>AB</u>	3310	The SDSRV CI shall accept Metadata Problem Reports.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
S-DSS-00720						<u>IMS-0460#B</u>	5117	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57500	A	5124	The Trouble Ticketing Service shall have a graphical user interface to support the entry and editing of trouble tickets.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57530	A	5127	The Trouble Ticketing Service shall provide the ability to search historical and current trouble tickets by various criteria including keyword, user id, and trouble ticket ID.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57540	A	5128	The Trouble Ticketing Service shall provide the ability to forward trouble tickets from one organization to another to facilitate the escalation of trouble tickets (e.g. from DAAC to SMC).		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57560	A	5130	The Trouble Ticketing Service shall provide the ability to search for trouble tickets relating to the same resource (equipment).		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	

C-MSS-57580	A	5131	The Trouble Ticketing Service shall provide the ability to store the following minimum set of information : unique trouble ticket ID, status, description, associated resources, problem solution, originator, keywords.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57600	A	5133	The Trouble Ticketing Service shall allow entry of a trouble ticket by any registered user of the system.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57610	A	5134	The Trouble Ticketing Service shall provide the capability to generate reports from the its data.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57620	A	5135	The Trouble Ticketing Service shall allow output of reports to either the screen or printer.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	
C-MSS-57630	A	5136	The Trouble Ticketing Service shall provide customization features to allow sites to specify notification and escalation rules.		functiona l	<u>IMS-0460#A</u>	5505	The IMS shall provide the capability to accept metadata problem reports from users, and inform the PGS quality assurance staff of the problem.	functional	

Table 1.9 Move S-DSS-01160 to Release B because it is not in the scope of Release A. Modify S-DSS-01160 as shown, so that the described functionality is consistent with the implementation.

S-DSS-01160	<u>AB</u>	3362	The SDSRV CI shall provide periodic, asynchronous status messages to the client <u>accept Status Requests from the client and provide the requested status, asynchronously,</u> during the execution of a Search Request.		functiona l	IMS-0665#B	5192	The IMS shall provide informational messages to indicate that a query is being executed, and shall provide the capability for the user to abort any time-intensive operations.	functional	
S-DSS-01160						IMS-0665#A	5525	The IMS shall provide informational messages to indicate that a query is being executed, and shall provide the capability for the user to abort any time-intensive operations.	functional	

Table 1.10 Delete S-DSS-21035 and S-DSS-21030 because the AMASS COTS product does not provide this capability and the capability is not required in order to satisfy Level 3 requirements.

S-DSS-21035	A	3753	The STMGT CI shall provide the SDSRV CI the capability to deallocate archive storage devices in the DRPHW CI.		functional	DADS0460#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21035						DADS0488#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS
S-DSS-21035						DADS0680#B	3514	Each DADS shall have the capability to support all required requests and shall grow as demand expands.	functional	Capacity issue
S-DSS-21035						DADS0490#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21035						DADS2430#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21035						DADS2410#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21035						DADS0490#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21035						DADS2410#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21035						DADS2430#A	4493	Each DADS shall be capable of distributing any data granule stored in	functional	

								the archive.		
S-DSS-21035						DADS0460#A	4098	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21030	A	3752	The STMGT CI shall provide the SDSRV CI the capability to deallocate archive storage devices in the DRPHW CI.		functional	DADS0490#A	4103	Each DADS shall archive Level 1B - Level 4 data products.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21030						DADS0460#A	4098	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	A: Release A products for the missions as described in the table in the SOW.
S-DSS-21030						DADS2430#A	4493	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21030						DADS2410#A	4488	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	
S-DSS-21030						DADS0460#B	3496	Each DADS shall provide storage at a minimum, for non-EOS data required for Standard Product production by the PGS.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21030						DADS0488#B	3501	Each DADS shall archive the EDOS production data sets (Level 0) received from EDOS, or the equivalent Level 1A data.	functional	B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS LARC DAACS WILL INTERFACE WITH EDOS
S-DSS-21030						DADS0680#B	3514	Each DADS shall have the capability	functional	Capacity issue

								to support all required requests and shall grow as demand expands.		
S-DSS-21030						DADS0490#B	3502	Each DADS shall archive Level 1B - Level 4 data products.	functional	B: Release B products for the missions as described in the table in the SOW.
S-DSS-21030						DADS2430#B	3620	Each DADS shall be capable of distributing any data granule stored in the archive.	functional	
S-DSS-21030						DADS2410#B	3619	Each DADS shall distribute data from the archive in response to receipt of a product order from the IMS.	functional	

Table 1.11 Link S-DSS-01400 and S-DSS-01430 to DADS0901#A.

S-DSS-01400	IR1	9453	The SDSRV CI shall log the termination of the processing of a Service Request.		functiona l	<u>DADS0</u> <u>901#A</u>	4122	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management	functional	A: Full fault management reporting to SMC/LSM
S-DSS-01430	IR1	9455	The SDSRV CI shall log the initiation of the processing of a Service Request.		functiona l	<u>DADS0</u> <u>901#A</u>	4122	The DADS element shall collect the management data used to support the following system management functions: a. Fault Management b. Configuration Management d. Accountability Management e. Performance Management f. Security Management g. Scheduling Management h. Distribution and Ingest Management	functional	A: Full fault management reporting to SMC/LSM

Table 2 - Changes to Level 4 requirements

(Implement Link tables 3 & 4 first!!!)

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	CCR	clarification	text
S-DSS-01160	3362	<u>A</u> <u>B</u>	functional	approved	demo	<u>un-verified</u>			The SDSRV CI shall provide periodic, asynchronous status messages to the client <u>accept Status Requests from the client and provide the requested status, asynchronously,</u> during the execution of a Search Request.
S-DSS-00734	3313	<u>A</u> <u>B</u>	functional	approved	demo	<u>un-verified</u>			The SDSRV CI shall provide the capability to store Data Availability Schedules.
S-DSS-01525	3399	<u>A</u> <u>B</u>	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall accept Subscriptions for Data Availability Schedules from the PLANG CI.
S-DSS-20442	3683	<u>A</u> <u>B</u>	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide the capability to archive Data Availability Schedules.
S-DSS-20444	3684	<u>A</u> <u>B</u>	functional	approved	demo	<u>un-verified</u>			The STMGT CI shall provide the capability to retrieve Data Availability Schedules.
S-DSS-01190	3365	<u>A</u> <u>B</u>	functional	approved	demo	<u>un-verified</u>			The SDSRV CI shall provide the capability for operations staff to view the resources used and allocated by a client.
S-DSS-03369	9546	<u>A</u> <u>B</u>	<u>functional</u>	<u>approved</u>	<u>test</u>	<u>un-verified</u>			The SDSRV CI shall be capable of receiving expedited data from instruments.
S-DSS-04090	9805	<u>A</u> <u>B</u>	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall supply Metadata associated with FDF orbit data for AM-1 instruments to

									the DDIST CI.
S-DSS-20255	3664	A <u>B</u>	functiona l	approved	demo	un- verified			If an uncorrectable error occurs during retrieval operations, STMGT CI shall automatically recreate the contents on new media.
S-DSS-20370	3676	A <u>B</u>	functiona l	approved	demo	<u>un- verified</u>			The STMGT CI shall use openly published and non-proprietary data formats to store data.
S-DSS-20980	3742	A	functiona l	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to open files on archive storage media in the DRPHW CI.
S-DSS-20990	3744	A	functiona l	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to close files on archive storage media in the DRPHW CI.
S-DSS-21000	3746	A	functiona l	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to read information from files on archive storage media in the DRPHW CI.
S-DSS-21010	3748	A	functiona l	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to write information into files on archive storage media in the DRPHW CI.
S-DSS-21020	3750	A	functiona l	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to allocate archive storage devices for Service Request processing in the DRPHW CI.
S-DSS-21640	4015	A	performa nce	approved	demo				The Science Management within the Data Server shall support making archive data associated with a pre-defined ECS standard format available to the network in that format within an average of 2 minutes.
S-DSS-21650	4016	A	performa nce	approved	demo				The Science Management within the Data Server shall support making archive data associated with a pre-defined ECS standard

									format available to the network in a different format within an average of 5 minutes.
S-DSS-00820	3323	A	functional	agreed	demo				The SDSRV CI shall provide a mechanism to control changes to the Configuration Management Data.
S-DSS-00702	3307	A B	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall be capable of sending management directives to DDSRV CI.
S-DSS-00704	3308	A B	interface	approved	demo	<u>un-verified</u>			The SDSRV CI shall be capable of sending management directives to DDIST CI.
S-DSS-10292	3613	A B	interface	approved	demo	<u>un-verified</u>			The DDSRV CI shall receive management directives from the SDSRV CI.
S-DSS-30797	3892	A B	interface	approved	demo	<u>un-verified</u>			The DDIST CI shall receive management directives from the SDSRV CI.
S-DSS-00720	3310	A B	functional	approved	demo	<u>un-verified</u>			The SDSRV CI shall accept Metadata Problem Reports.
S-DSS-21035	3753	A	functional	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to deallocate archive storage devices in the DRPHW CI.
S-DSS-21030	3752	A	functional	approved	demo				The STMGT CI shall provide the SDSRV CI the capability to deallocate archive storage devices in the DRPHW CI.

Table 3 - RBR Links Added

<u>DADS0100#A</u>	<u>S-INS-00221</u>
<u>DADS0100#A</u>	<u>S-INS-00222</u>
<u>DADS0100#A</u>	<u>S-INS-00225</u>
<u>DADS0100#A</u>	<u>S-INS-00226</u>
<u>DADS0100#A</u>	<u>S-INS-00228</u>
<u>DADS0100#A</u>	<u>S-INS-00230</u>
<u>IMS-0460#A</u>	<u>C-MSS-57500</u>
<u>IMS-0460#A</u>	<u>C-MSS-57530</u>
<u>IMS-0460#A</u>	<u>C-MSS-57540</u>
<u>IMS-0460#A</u>	<u>C-MSS-57560</u>
<u>IMS-0460#A</u>	<u>C-MSS-57580</u>
<u>IMS-0460#A</u>	<u>C-MSS-57600</u>
<u>IMS-0460#A</u>	<u>C-MSS-57610</u>
<u>IMS-0460#A</u>	<u>C-MSS-57620</u>
<u>IMS-0460#A</u>	<u>C-MSS-57630</u>
<u>DADS0901#A</u>	<u>S-DSS-01400</u>
<u>DADS0901#A</u>	<u>S-DSS-01430</u>

Table 4 - RBR Links Deleted

IMS-1660#A	S-DSS-01190
DADS1470#A	S-DSS-01190
DADS1235#A	S-DSS-03369
DADS1720#A	S-DSS-20370
DADS1710#A	S-DSS-20370
DADS0460#A	S-DSS-20980
DADS2410#A	S-DSS-20980
DADS2430#A	S-DSS-20980
DADS0490#A	S-DSS-20980
DADS0460#B	S-DSS-20980
DADS2430#B	S-DSS-20980
DADS2410#B	S-DSS-20980
DADS0490#B	S-DSS-20980
DADS0680#B	S-DSS-20980
DADS0488#B	S-DSS-20980
DADS0460#A	S-DSS-20990
DADS2430#A	S-DSS-20990
DADS2410#A	S-DSS-20990
DADS0490#A	S-DSS-20990
DADS0460#B	S-DSS-20990
DADS2430#B	S-DSS-20990
DADS2410#B	S-DSS-20990
DADS0680#B	S-DSS-20990
DADS0490#B	S-DSS-20990
DADS0488#B	S-DSS-20990
DADS0460#A	S-DSS-21000
DADS0490#A	S-DSS-21000
DADS2430#A	S-DSS-21000
DADS2410#A	S-DSS-21000
DADS0460#B	S-DSS-21000
DADS0680#B	S-DSS-21000
DADS0490#B	S-DSS-21000
DADS2430#B	S-DSS-21000
DADS2410#B	S-DSS-21000
DADS0488#B	S-DSS-21000
DADS2430#A	S-DSS-21010

DADS2410#A	S-DSS-21010
DADS0460#A	S-DSS-21010
DADS0490#A	S-DSS-21010
DADS0460#B	S-DSS-21010
DADS2410#B	S-DSS-21010
DADS2430#B	S-DSS-21010
DADS0680#B	S-DSS-21010
DADS0488#B	S-DSS-21010
DADS0490#B	S-DSS-21010
DADS2430#A	S-DSS-21020
DADS2410#A	S-DSS-21020
DADS0490#A	S-DSS-21020
DADS0460#A	S-DSS-21020
DADS0460#B	S-DSS-21020
DADS2430#B	S-DSS-21020
DADS2410#B	S-DSS-21020
DADS0680#B	S-DSS-21020
DADS0490#B	S-DSS-21020
DADS0488#B	S-DSS-21020
DADS3126#B	S-DSS-21640
DADS3126#A	S-DSS-21640
DADS3126#A	S-DSS-21650
DADS3126#B	S-DSS-21650
DADS0901#A	S-DSS-00820
DADS1850#B	S-DSS-00820
DADS1850#A	S-DSS-00820
DADS0901#B	S-DSS-00820
DADS0100#A	S-DSS-00702
DADS0100#A	S-DSS-00704
DADS0100#A	S-DSS-10292
DADS0100#A	S-DSS-30797
IMS-0460#A	S-DSS-00720
IMS-0665#A	S-DSS-01160
DADS0460#B	S-DSS-21035
DADS0488#B	S-DSS-21035
DADS0680#B	S-DSS-21035
DADS0490#B	S-DSS-21035
DADS2430#B	S-DSS-21035

DADS2410#B	S-DSS-21035
DADS0490#A	S-DSS-21035
DADS2410#A	S-DSS-21035
DADS2430#A	S-DSS-21035
DADS0460#A	S-DSS-21035
DADS0490#A	S-DSS-21030
DADS0460#A	S-DSS-21030
DADS2430#A	S-DSS-21030
DADS2410#A	S-DSS-21030
DADS0460#B	S-DSS-21030
DADS0488#B	S-DSS-21030
DADS0680#B	S-DSS-21030
DADS0490#B	S-DSS-21030
DADS2430#B	S-DSS-21030
DADS2410#B	S-DSS-21030