

# CCR-97-0714A

**Table 1. New DSS L4s:**

L4 id	req_key	rel	req_type	req_statuses	ver_method	ver_status	text
<u>S-DSS-80600</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the GSFC DAAC shall have the capacity to store 15027K files.</u>
<u>S-DSS-80601</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the LaRC DAAC shall have the capacity to store 3561K files.</u>
<u>S-DSS-80602</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the EDC DAAC shall have the capacity to store 8506K files.</u>
<u>S-DSS-80603</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the NSIDC DAAC shall have the capacity to store 1437K files.</u>
<u>S-DSS-80605</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the GSFC DAAC shall have the capacity to store 5009K Inventory Metadata entries.</u>
<u>S-DSS-80606</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the LaRC DAAC shall have the capacity to store 1187K Inventory Metadata entries.</u>
<u>S-DSS-80607</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the EDC DAAC shall have the capacity to store 2764K Inventory Metadata entries.</u>
<u>S-DSS-80608</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the NSIDC DAAC shall have the capacity to store 479K Inventory Metadata entries.</u>
<u>S-DSS-05790</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The SDSRV CI at the GSFC DAAC shall have the capability to store Inventory Metadata for 8963 granules per day.</u>
<u>S-DSS-05791</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The SDSRV CI at the LaRC DAAC shall have the capability to store Inventory Metadata for 4331 granules per day.</u>
<u>S-DSS-05792</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The SDSRV CI at the EDC DAAC shall have the capability to store Inventory Metadata for 5356 granules per day.</u>
<u>S-DSS-05793</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The SDSRV CI at the NSIDC DAAC shall have the capability to store Inventory Metadata for 1125 granules per day.</u>
<u>S-DSS-80610</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the GSFC DAAC shall have the capacity to store 574 GB in any given day.</u>
<u>S-DSS-80611</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the LaRC DAAC shall have the capacity to store 295 GB in any given day.</u>
<u>S-DSS-80612</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the EDC DAAC shall have the capacity to store 540 GB in any given day.</u>
<u>S-DSS-80613</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The DRPHW CI at the NSIDC DAAC shall have the capacity to store 20 GB in any given day.</u>
<u>S-DSS-70200</u>	<u>new</u>	<u>B0</u>	<u>Performance</u>	<u>Approved</u>	<u>Analysis</u>	<u>Unverified</u>	<u>The WSHSW CI at the GSFC DAAC shall be capable of supporting the ingest of 574 GB in any given day.</u>

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**Table 1. New DSS L4s (Cont'd):**

L4 id	req_key	rel	req_type	req_status	ver_method	ver_status	text
S-DSS-70201	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the LaRC DAAC shall be capable of supporting the ingest of 295 GB in any given.
S-DSS-70202	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the EDC DAAC shall be capable of supporting the ingest of 540 GB in any given day.
S-DSS-70203	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the NSIDC DAAC shall be capable of supporting the ingest of 20 GB in any given day.
S-DSS-80615	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the GSFC DAAC shall have the capacity to store 245 terabytes.
S-DSS-80616	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the LaRC DAAC shall have the capacity to store 83 terabytes.
S-DSS-80617	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the EDC DAAC shall have the capacity to store 215 terabytes.
S-DSS-80618	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the NSIDC DAAC shall have the capacity to store 8 terabytes.
S-DSS-70205	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the GSFC DAAC shall be capable of supporting the distribution of 368 GB/day.
S-DSS-70206	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the LaRC DAAC shall be capable of supporting the distribution of 146 GB/day.
S-DSS-70207	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the EDC DAAC shall be capable of supporting the distribution of 88 GB/day.
S-DSS-70208	new	B0	Performance	Approved	Analysis	Unverified	The WSHW CI at the NSIDC DAAC shall be capable of supporting the distribution of 11 GB/day.
S-DSS-80620	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the GSFC DAAC shall be capable of supporting the retrieval of 368 GB/day.
S-DSS-80621	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the LaRC DAAC shall be capable of supporting the retrieval of 146 GB/day.
S-DSS-80622	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the EDC DAAC shall be capable of supporting the retrieval of 88 GB/day.
S-DSS-80623	new	B0	Performance	Approved	Analysis	Unverified	The DRPHW CI at the NSIDC DAAC shall be capable of supporting the retrieval of 11 GB/day.

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**Table 2. RBRs Modifications:**

RBR_id	req_key	Rel	Req_Cat egory	segment	req_type	text	interpretation text
DADS 1640# B	7178	<b>B0B1</b>	mission essential	SDPS	performance   evolvable	The DADS shall support the number of files derivable from Appendix C, with the ability to expand to match growth.	<del>B: TRMM, AM-1, Landsat-7</del> <u>The number of files for Release B0 archives are derived from the capability to accommodate the Release B0 supported missions until 1 year after AM-1 launch (middle of 99). The number of files at GSFC is also sized to support the TSDIS data (along with required ancillary) and V0 migration data while LaRC archive is sized to support the CERES (TRMM) data (along with required ancillary) and V0 migration data. EDC and NSIDC are also sized to support V0 migrated data. Total accumulated number of files for Release B0, derived from the Feb., 1996 Technical Baseline (Release B0 procurement baseline), is 15027K @ GSFC, 3561K @ LaRC, 8506K @ EDC and 1437K @ NSIDC. (The number of files was derived by assuming three files per granule. This allows for a production history file and one QA file per granule). For Landsat 7 the LOR Data File Control Book structure was used to arrive at the number of files per granule. The number of V0 migration files was derived by assuming an average size of 50 MB per file. Note: The specified TRMM/TSDIS storage volumes are to accommodate possible future data migration.</u>
DADS 1805# B	3578	<b>B0B1</b>	mission essential	SDPS	functional	The DADS shall provide an inventory system capable, at a minimum, of the following: a. Accepting the number of new inventory entries, one per granule, for the number of granules per day as specified in Appendix C b. Uniquely identifying each data granule c. Tracking the physical location of each data granule.	<del>B: TRMM, AM-1, Landsat-7</del> <u>The number of granules for Release B0 archives are derived from the capability to accommodate the Release B0 supported missions until 1 year after AM-1 launch (middle of 99). The number of granules at GSFC is also sized to support the TSDIS data (along with required ancillary) and V0 migration data while LaRC archive is sized to support the CERES (TRMM) data (along with required ancillary) and V0 migration data. EDC and NSIDC are also sized to support V0 migrated data. Total accumulated number of granules for Release B0, derived from the Feb., 1996 Technical Baseline (Release B0 procurement baseline), is 5009K @ GSFC, 1187K @ LaRC, 2764K @ EDC and 479K @ NSIDC. The number of V0 migration files was derived by assuming an average size of 50 MB per file. For Release A, the peak number of granules archived per day @ GSFC is 8963, @ LaRC is 4331, @ EDC is 5356 and @NSIDC is 1125. Note: The specified TRMM/TSDIS storage volumes are to accommodate possible future data migration.</u>

Table 2. RBRs Modifications (Cont'd):

RBR_id	req_key	Rel	Req_Cat egory	segment	req_type	text	interpretation text
DADS 2778# B	3632	<b>B0</b>	mission essential	SDPS	performanc e	Each DADS shall be capable of receiving and archiving three days' worth of data (see Appendix C) in any given day.	<b>B: TRMM, AM-1, and Landsat-7</b> <u>The Release B0 archives throughput are calculated based on the capacity to accommodate the Release B0 supported missions until 1 year after AM-1 launch (middle of 99). The archive at GSFC is also sized to support the TSDIS data (along with required ancillary) and V0 migration data while LaRC archive is also sized to support the CERES (TRMM) data (along with required ancillary) and V0 migration data. EDC and NSIDC are also sized to support V0 migrated data. Total throughput capacity for L0 plus non-EOS data and 1.2 days worth of higher level EOS data in 1 day, derived from the Feb., 1996 Technical Baseline (Release B0 procurement baseline), in GB/day is 574 @ GSFC, 295 @ LaRC, 540 @ EDC and 20 @ NSIDC. Note: The specified TRMM/TSDIS storage volumes are to accommodate possible future data migration.</u>
DADS 2900# B	7180	<b>B0B1</b>	mission essential	SDPS	performanc e   functional	Each DADS shall provide archival capacity for current volume requirements plus one year. Volume requirements are specified in Appendix C.	<u>The Release B0 archives are sized with the capacity to accommodate the Release B0 supported missions until 1 year after AM-1 launch (middle of 99). The archive at GSFC is also sized to support the TSDIS data (along with required ancillary) and V0 migration data while LaRC archive is sized to support the CERES (TRMM) data (along with required ancillary) and V0 migration data. EDC and NSIDC are also sized to support V0 migrated data. Total accumulated Release B0 archive capacity, derived from the Feb., 1996 Technical Baseline (ReleaseB0 procurement baseline), in TBytes is 245 @ GSFC and 83 @ LaRC, 215 @ EDC and 8 @ NSIDC. Note: The specified TRMM/TSDIS storage volumes are to accommodate possible future data migration.</u>
DADS 3100# B	3642	<b>B0B1</b>	mission essential	SDPS	performanc e	Each DADS shall be capable of transmitting data over communications network in support of data production requests at the data rate specified in Appendix C and in support of data distribution requests at a rate equivalent to daily product volume (L1-L4).	<u>The Release B0 Data Server supports the data production the following network distribution flows, as derived from the L1-L4 volume in the Feb., 1996 Technical Baseline (Release B0 procurement baseline): @ GSFC 368 GB/day to users, @ LaRC 146 GB/day to users, @ EDC 88 GB/day to users and @ NSIDC 11 GB/day to users. This includes the distribution of data for instrument calibration and data QA.</u>

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**Table 3. DSS L4 Link Additions:**

<u>DADS1640#B</u>	<u>S-DSS-80600</u>
<u>DADS1640#B</u>	<u>S-DSS-80601</u>
<u>DADS1640#B</u>	<u>S-DSS-80602</u>
<u>DADS1640#B</u>	<u>S-DSS-80603</u>
<u>DADS1805#B</u>	<u>S-DSS-00145</u>
<u>DADS1805#B</u>	<u>S-DSS-21390</u>
<u>DADS1805#B</u>	<u>S-DSS-80605</u>
<u>DADS1805#B</u>	<u>S-DSS-80606</u>
<u>DADS1805#B</u>	<u>S-DSS-80607</u>
<u>DADS1805#B</u>	<u>S-DSS-80608</u>
<u>DADS1805#B</u>	<u>S-DSS-05790</u>
<u>DADS1805#B</u>	<u>S-DSS-05791</u>
<u>DADS1805#B</u>	<u>S-DSS-05792</u>
<u>DADS1805#B</u>	<u>S-DSS-05793</u>
<u>DADS2778#B</u>	<u>S-DSS-80610</u>
<u>DADS2778#B</u>	<u>S-DSS-80611</u>
<u>DADS2778#B</u>	<u>S-DSS-80612</u>
<u>DADS2778#B</u>	<u>S-DSS-80613</u>
<u>DADS2778#B</u>	<u>S-DSS-70200</u>
<u>DADS2778#B</u>	<u>S-DSS-70201</u>
<u>DADS2778#B</u>	<u>S-DSS-70202</u>
<u>DADS2778#B</u>	<u>S-DSS-70203</u>
<u>DADS2900#B</u>	<u>S-DSS-80615</u>
<u>DADS2900#B</u>	<u>S-DSS-80616</u>

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**Table 3. DSS L4 Link Additions (Cont'd):**

<u>DADS2900#B</u>	<u>S-DSS-80617</u>
<u>DADS2900#B</u>	<u>S-DSS-80618</u>
<u>DADS3100#B</u>	<u>S-DSS-70205</u>
<u>DADS3100#B</u>	<u>S-DSS-70206</u>
<u>DADS3100#B</u>	<u>S-DSS-70207</u>
<u>DADS3100#B</u>	<u>S-DSS-70208</u>
<u>DADS3100#B</u>	<u>S-DSS-80620</u>
<u>DADS3100#B</u>	<u>S-DSS-80621</u>
<u>DADS3100#B</u>	<u>S-DSS-80622</u>
<u>DADS3100#B</u>	<u>S-DSS-80623</u>

**CCR-97-0714A****Table 4. DSS L4 Link Deletions:**

DADS2778#B	S-DSS-01930
DADS2778#B	S-DSS-01940
DADS3100#B	S-DSS-02000
DADS2900#B	S-DSS-21700
DADS2778#B	S-DSS-21710
DADS2900#B	S-DSS-21710
DADS2778#B	S-DSS-21720
DADS2900#B	S-DSS-21720
DADS2900#B	S-DSS-21730
DADS2900#B	S-DSS-21740
DADS2900#B	S-DSS-21570
DADS2778#B	S-DSS-60940
DADS2778#B	S-INS-01000
DADS2778#B	S-INS-60750
DADS2778#B	S-INS-60751
DADS2778#B	S-INS-60755
DADS2778#B	S-INS-60756
DADS2778#B	S-INS-60771
DADS2778#B	S-INS-60772
DADS2778#B	S-INS-61025