

## Table 1 - Update DADS RBR#B 97-0911B

**Data reflects RTM baseline of 5/23/97**

RBR_id	req_key	Rel	Req_Category	segment	req_type	s_verif_method	s_verif_stat	a_verif_method	a_verif_stat	text	interpretation text
DADS0010#B	3458	<u>B0B1</u>	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Each DADS shall receive updated metadata for products that have been QA'd.	<del>B: Release-B data described in the Data Type Matrix. This is implemented in B0 for data types, as specified in the Data Type Services Matrix.</del>
DADS0020#B	3459	<u>B0B1</u>	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	Each DADS shall, upon receipt of updated metadata for products which have been QA'd, store the metadata in its inventory.	<del>B: TRMM, AM-1, Landsat-7 products This is implemented in B0 for data types, as specified in the Data Type Services Matrix.</del>
DADS0070#B	3460	<u>B1</u>	mission fulfillment	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Each DADS shall provide the capability of scanning or digitizing hardcopy input for the purpose of archiving documents.	
DADS0130#B	9073	<u>B0</u>	mission critical	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall receive from the EDOS, at a minimum, the following: a. Production data (L0) b. Expedited data	<del>B: ONLY THE GSFC AND LARC DAACS WILL INTERFACE WITH EDOS This capability is implemented in B0 at the LaRC and GSFC DAACS.</del>
DADS0170#B	3469	<u>B0B1</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall be capable of receiving from designated EPDSs and ODCs, at a minimum, the following: a. L0-L4 data sets b. Metadata c. Ancillary data d. Calibration data e. Correlative data f. Documents g. Algorithms	In accordance with the ICD with the Landsat project (to only identified EPDS to date), there is no current plan to receive correlative data (item e). There are also currently no defined ODCs. <b>Items a, b, c, and d are implemented in B0 as specified in the Data Type Services Matrix; items e, f, and g are supported in B1.</b>
DADS0180#B	3471	<u>B0B1</u>	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Each DADS shall receive from the users, at a minimum, the following: a. Metadata b. Correlative data c. Documents d. New derived data sets	<b>Items a, b, and d are implemented in B0 as specified in the Data Type Services Matrix; documents are supported in B1.</b>
DADS0250#B	3477	<u>B0B1</u>	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Each DADS shall receive, at a minimum, data in the following forms: a. Physical electronic media b. Electronic communications network c. Hardcopy media	<b>Items a and b are implemented in B0; hardcopy media is supported in B1.</b>
DADS0282#B	3480	<u>B0</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall be capable of storage and retrieval of real and simulated EOS instrument data in support of pre-launch checkout of the ground system.	<del>B: Simulated and real data This is implemented in B0 for data types, as specified in the Data Type Services Matrix.</del>
DADS03484	3484	<u>B0</u>	mission	SDPS	functional	test	un-	test	<u>un-</u>	Each DADS shall verify compliance of scientist	

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320#B			essential				verified		verified	provided data with EOSDIS defined standards for metadata and file content (not scientific content).	
DADS0412#B	3490	<u>B1</u>	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Each DADS shall notify users when a product becomes eligible for deletion via direct notification and via the ECS bulletin board. The product eligible for deletion shall be deleted after six months unless the DADS is directed otherwise by appropriate authority.	
DADS0425#B	3491	<u>B0</u>	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Archive and backup media at each DADS shall have a rated shelf life of at least 10 years as determined by the National Archives and Records Administration (NARA), National Institute for Standards and Technology (NIST), NASA, or a professional or industry organization such as ANSI, the Society of Motion Picture and Television Engineers (SMPTE) or the National Association of Broadcasters (NAB).	B: S-DSS-21655 applies for A/B/C/D for all selected or follow-on form factors.
DADS0430#B	8553	<u>B0</u>	mission essential	SDPS	functional   operational	test	un-verified	test	un-verified	Each DADS shall provide its operations personnel the capability to manually alter the routing of data sets to physical storage locations.	<del>B: Operations personnel can monitor the allocation of storage devices and alter the allocation of storage devices at a Data Type Level. In B0, operations personnel will have the capability to alter the routing of data types to storage locations.</del>
DADS0435#B	3493	<u>B0B1</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	At each DADS operations personnel shall be able to add new physical volumes and eject physical volumes from the archive for off-line or off-site permanent storage.	<u>Off-site permanent storage is performed automatically, manually in B0. Physical removal of archive volumes is supported in B1.</u>
DADS0500#B	3504	<u>B0</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall receive changes to standing orders from the IMS.	<u>The capability to create or modify standing orders is supported in B0 by the CSS Subscription Service.</u>
DADS0540#B	8576	<u>B0</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall notify the PGS of the receipt of non-EOS data sets required for Standard Product production.	Notification provided by the subscription capability is supported in B0.
DADS0550#B	3508	<u>B0</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall notify the PGS of the receipt of EOS data sets required for Standard Product production (e.g., data received from non-collocated DADS).	Notification provided by the subscription capability is supported in B0.
DADS0590#B	3510	<u>B0B1</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall support the capability for subsetting, and subsampling data products ordered via the IMS.	<del>B: Release B products for the missions as described in table in the SOW. This capability is supported in B0 for data types, as specified in the Data Type Services Matrix.</del>
DADS09174	9174	<u>B0B1</u>	mission	SDPS	functional	test	un-	test	un-	Each DADS shall provide the capability to subset,	Rel B function as defined by the Data Type Matrix. Thi

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740#B			essential				verified		verified	subsample, or average data within a granule based on defined criteria to include: a. Geographic location (x, y, z) (spatial with rectangular boundaries) b. Spectral band c. Time d. WRS	<u>capability is supported in B0 for data types, as specified in the Data Type Services Matrix.</u>
DADS0 800#B	3521	<u>B0</u>	mission essential	SDPS	functional	test	un-verified	test	<u>un-verified</u>	Each DADS shall provide the capability to translate input data to the internal ECS format including HDF.	
DADS0 880#B	3522	<u>B1</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	For data which it has distributed, each DADS, via the LSM, shall generate required accounting information.	
DADS0 890#B	3523	<u>B1</u>	mission essential	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall generate resource utilization statistics (accounting data) as input to the billing process. The statistics include at a minimum: a. Standing order/data distribution request number b. Media cost c. CPU utilization d. I/O utilization e. Personnel costs f. Shipping/handling g. Networking cost h. Archival storage cost	
DADS0 930#B	3528	<u>B1</u>	mission fulfillment	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall provide the IMS an estimate of the staging delay before subsetted, subsampled, or summary data sets are available.	
DADS1 400#B	9081	<u>B0</u>	mission critical	SDPS	functional	test	un-verified	test	un-verified	Each DADS shall notify the originating source of the need to retransmit data in the event of transmission difficulties.	
DADS1 470#B	3557	<u>B0B1</u>	mission essential	SDPS	functional	demo	un-verified	demo	un-verified	Each DADS shall manage element resource utilization.	B: Full capability
DADS1 475#B	9082	<u>B0B1</u>	mission essential	SDPS	functional	demo	un-verified	demo	un-verified	Each DADS shall provide tools to the users to perform: a. Format conversion of EOS data b. Subsetting c. Compression (lossy, lossless) d. Data transformation e. Subsampling	<del>B: Format conversion, subsampling, subsetting, and transformation; Subsampling and subsetting are supported in B0 for data types, as specified in the Data Type Services Matrix. Format conversion and lossless compression are supported in B0, as well.</del>
DADS1	3560	<u>B0</u>	mission	SDPS	functional	demo	un-	demo	<u>un-</u>	Each DADS shall ensure that IMS acknowledges	<u>This is implemented in B0 by verifying that all data and</u>

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510#B			essential				verified		verified	receipt of metadata on all products stored in the DADS.	<u>metadata are stored for a Data Insert Request prior to reporting its successful completion.</u>
DADS1 540#B	3563	<u>B0</u>	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	In case of corruption or catastrophic failure, capabilities for recovering the file directory shall be provided.	
DADS1 610#B	3565	<u>B0</u>	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The FSMS shall provide for continued performance, albeit in a degraded mode, when a device (e.g., disk or cartridge drive, operator's console) fails.	<u>In B0, the AMASS file system provides the operator the capability to place a failed tape drive in off-line mode &amp; continue operation with the remaining drives. Failed drives are managed by the use of RAID.</u>
DADS1 710#B	3570	<u>B0B1</u>	mission fulfillment	SDPS	functional	demo	un-verified	demo	un-verified	The DADS shall comply with evolving guidelines and standards in such areas as file storage, storage management, and backup where appropriate.	<u>The DADS will comply with ESDIS-approved standards in B0.</u>
DADS1 720#B	3571	<u>B0B1</u>	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The FSMS at each DADS shall be based on published and open architectures which fully describe the physical organization and structures of files.	<u>The DADS will comply with ESDIS-approved file format and file organization in B0.</u>
DADS1 730#B	3572	<u>B0</u>	mission essential	SDPS	functional	demo	un-verified	demo	<u>un-verified</u>	The DADS shall be developed using file storage management systems that have configuration-controlled application programming interfaces (APIs) that will allow the development of DAAC-unique file storage management services operated independently of the delivered ECS DADS services.	<u>This is supported in B0 by providing the AMASS APIs.</u>
DADS1 790#B	9165	<u>B1</u>	mission essential	SDPS	functional   operational	demo	un-verified	demo	un-verified	Each DADS shall periodically verify that all data sets are present and accounted for.	<u>In B1, the Operations staff will manually initiate the verification process periodically as warranted.</u>
DADS1 791#B	3575	<u>B0</u>	mission essential	SDPS	functional	demo	un-verified	demo	un-verified	Each DADS shall have the capability to mount archival media via automated means.	

**97-0911**

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RBR id	L4 id
DADS0540#B	C-CSS-40150
DADS0550#B	C-CSS-40150