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of the minimum components required		t						
	of the minimum components required							
	for archival data	<u></u>						

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
1.4.6 PDS will develop, publish and implement a process for managing changes to the archive standards			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
1.4.7 PDS will keep abreast of new developments in archiving standards			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
data producers in generating PDS tool t	L4.PRP.1 - The system shall provide a tool that assists users in the design of PDS product labels.	L5.PRP.DE.1 - The tool shall initiate a design session as follows	Design	Build 1	AAFUNCTION.1	NODESTEST.	L
		L5.PRP.DE.2 - The tool shall accept the following as input for specifying a schema file	-		AAFUNCTION.1	NODESTEST.	l
		L5.PRP.DE.3 - The tool shall facilitate modification of a schema file as follows	- ·		AAFUNCTION.1	NODESTEST.	l
		L5.PRP.DE.4 - The tool shall provide standard editing features as follows	-		AAFUNCTION.1	NODESTEST.	ı
		L5.PRP.DE.5 - The tool shall indicate when a schema is not valid.	-		AAFUNCTION.1	NODESTEST.	L
		L5.PRP.DE.6 - The tool shall generate an XML instance file from a schema.	-		AAFUNCTION.1		
		L5.PRP.DE.7 - The tool shall export the schema for use outside the tool.			AAFUNCTION.1	NODESTEST.	1
tool that assists users in	L4.PRP.2 - The system shall provide a tool that assists users in the generation of PDS product labels.		Generate	Build 2-5	PRG.1		
1.5.2 PDS will provide tools to assist	L4.PRP.3 - The system shall provide a	L5.PRP.VA.1 - The tool shall accept the	Validate	Build 1-3	AAFUNCTION.2	NODESTEST.	2
data producers in validating products against PDS standards	tool that assists users in the validation of PDS products.	following as input for specifying the product(s) to be validated			PRV.1		
		L5.PRP.VA.2 - The tool shall traverse a directory tree and validate products discovered within that tree.	_		AAFUNCTION.2 PRV.1	NODESTEST.	2
		L5.PRP.VA.3 - The tool shall validate aggregate products and all products referenced by such products.	_		AAFUNCTION.2	NODESTEST.	2
		L5.PRP.VA.4 - The tool shall merge the contents of label fragments referenced			PRV.4		
		by include elements with the contents of the parent label when validating a product.	_				
		L5.PRP.VA.5 - The tool shall verify that a product label is well-formed XML.	_		AAFUNCTION.2 PRV.1		
		L5.PRP.VA.6 - The tool shall verify that a product label conforms to its associated schema file(s).			PRV.1	NODESTEST.	2
		L5.PRP.VA.7 - The tool shall accept the following as input for specifying the associated schema file(s)	-		AAFUNCTION.2 PRV.6	NODESTEST.	2
		L5.PRP.VA.8 - The tool shall verify that a schema file is valid.	-		PRV.5		
		L5.PRP.VA.9 - The tool shall indicate the schema(s) utilized during validation.			AAFUNCTION.2 PRV.1	NODESTEST.	2
		L5.PRP.VA.10 - The tool shall verify that a file exists when referenced from a product label.	1		PRV.2		
1.5.3 PDS will provide tools to assist data producers in submitting products t	0		N/A	N/A	N/A	N/A	Requirement not satisfied with software, yet.
the PDS archive							

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
1.5.4 PDS will provide documentation	L4.GEN.8 - The system shall provide	L5.GEN.11 - Components shall provide	All	Build 1-5	GEN.7		
for installing, using, and interfacing with	documentation detailing capabilities,	documentation detailing their					
each tool	dependencies, interfaces, installation	capabilities, dependencies, interfaces,					
3.4.4 DDC:!!!	and operation.	installation and operation.	NI/A	NI/A	NI/A	NI/A	Description and anti-field
2.1.1 PDS will compare proposed archival submissions against nominal			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
content standards for similar archives							with software.
and will seek augmentations when the							
submission is deficient							
2.1.2 PDS will identify and maintain a			N/A	N/A	N/A	N/A	Requirement not satisfied
list of proposed planetary science data							with software.
sets to be added to the archive							
2.1.3 PDS will work with relevant NASA			N/A	N/A	N/A	N/A	Requirement not satisfied
program officials to ensure that products resulting from data analysis programs	5						with software.
are submitted to the Archive							
2.1.4 PDS will provide a mechanism for			N/A	N/A	N/A	N/A	Requirement not satisfied
the planetary science community to			14//1	14//1	14,71	14//	with software.
propose new additions to the archive							
2.2.1 PDS will develop and publish the			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for delivery of data to the							with software.
PDS							
2.2.2 PDS will track the status of data	L4.GEN.3 - The system shall generate	L5.GEN.5 - Services shall generate	Registry	Build 2-3			
deliveries from data providers through the PDS to the deep archive	metrics regarding performance and activity.	metrics in a format suitable for ingestion	Searcn		SCH.5		
the PDS to the deep archive	activity.	by the Report Service.	Transport	Build 4	TRPT.1		
		L5.GEN.6 - Applications shall generate		Build 3-4	SCH.5		
		metrics in a format suitable for ingestion			REG.6		
		by the Report Service.					
		L5.GEN.7 - Tools shall generate a	Harvest	Build 1-2	HVT.1		
		report detailing results from a single	Validate		PRV.1		
	I A DEC 2. The system shall register	execution of the tool.	Harvest	Build 1-2	AAFUNCTION	.3 NODESTEST.	
	L4.REG.3 - The system shall register products of a data delivery into an	L5.HVT.1 - The tool shall accept a configuration file specifying policy for	narvest	Bulla 1-2	HVT.1 HVT.2	.3 NODESTEST.	3
	instance of the registry.	tool behavior.			HVT.5		
	motunee of the region y.	L5.HVT.2 - The tool shall provide a	-			.3 NODESTEST.	3
		command-line interface for execution.			HVT.1		
		L5.HVT.3 - The tool shall execute from	-		HVT.2		
		a scheduler.	_				
		L5.HVT.4 - The tool shall recursively				.3 NODESTEST.	3
		traverse the specified directory or			HVT.1		
		directories in order to identify candidate products for registration.			HVT.2		
		L5.HVT.5 - The tool shall determine	-		AAFLINCTION	.3 NODESTEST.	
		candidate products for registration			HVT.1 HVT.2	.5 1400251251	•
		through a combination of the following			HVT.5		
		L5.HVT.6 - The tool shall capture	-		AAFUNCTION	.3 NODESTEST.	3
		metadata for a candidate product			HVT.1		
		specified by the product type.	_		HVT.2		
		L5.HVT.7 - The tool shall submit the				.3 NODESTEST.	3
		associated metadata for a candidate			HVT.1 HVT.2		
		product to the specified Registry Service instance.			IIV I.Z		
		L5.HVT.8 - The tool shall track each	-		AAFUNCTION	.3 NODESTEST.	3
		product registration.			HVT.1 HVT.2		
		<u></u>			HVT.5		
		L5.REG.1 - The service shall accept	Registry	Build 1-2		.3 NODESTEST.	3
		artifact registrations.	-		REG.1 REG.9		
		L5.REG.2 - The service shall provide a				.3 NODESTEST.	3
		means for relating artifact registrations.			REG.2		

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
		L5.REG.4 - The service shall accept				NODESTEST.3	3
		metadata for a registered artifact in a			REG.1		
		defined format. L5.REG.5 - The service shall validate	-		REG.1		
		metadata for a registered artifact.			KLG.1		
		L5.REG.6 - The service shall assign a	•		AAFUNCTION.	3 NODESTEST.3	
		global unique identifier to a registered			REG.4		
		artifact.					
		L5.REG.7 - The service shall assign a			REG.5		
		version to a registered artifact based on					
		its logical identifier. L5.REG.8 - The service shall store			AAEUNCTION	NODESTEST.3	•
		metadata for a registered artifact in an			AAI ONCTION.	NODESTEST.	
		underlying metadata store.					
	L4.RPT.1 - The system shall maintain a		Report	Build 2-5	RPT.1		
	repository for collection and storage of PDS-wide metrics.	periodic submission of metrics.					
		L5.RPT.6 - The service shall aggregate and store the metrics in a repository.			RPT.1		
	L4.RPT.2 - The system shall collect the		-		RPT.1		
	following metrics for file access requests						
		L5.RPT.3 - The service shall utilize a			RPT.1		
		secure transfer protocol for transferring					
		log files across the Internet.	_				
		L5.RPT.4 - The service shall support log files from the following sources			RPT.1		
	L4.RPT.3 - The system shall associate a		-		RPT.1		
		product-related information by querying					
	product in the archive.	the Registry service.					
	L4.RPT.4 - The system shall associate a registered product in the archive with						
	the following information						
		L5.RPT.8 - The service shall allow users	-		RPT.1		
	report generation from collected metrics	to tailor reports and report templates as					
		follows	_				
		L5.RPT.9 - The service shall allow users			RPT.1		
		to save report templates for reuse.					
		L5.RPT.10 - The service shall allow	-		RPT.1		
		periodic generation of reports from			101112		
		saved templates.			_		
		L5.RPT.11 - The service shall export			RPT.1		
2.2.2.2.2.3.1.11		reports in the following formats	81/8	21/2	21/2	21/2	D :
2.2.3 PDS will provide the necessary resources for accepting data deliveries			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.3.1 PDS will develop and publish			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for determining syntactic			14/71	14/71	14/71	14/71	with software.
and semantic compliance with its							
standards							
2.3.2 PDS will implement procedures to			N/A	N/A	N/A	N/A	Requirement not satisfied
validate all data submissions to ensure							with software.
compliance with standards 2.4.1 PDS will develop and publish			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for peer review of archival			.,,	. 1, 7 1	.,,,	.,,,,	with software.
products (which includes all data							
submissions and ancillary information)							
2.4.2 PDS will establish success criteria			N/A	N/A	N/A	N/A	Requirement not satisfied
for peer review of archival products							with software.

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
2.4.3 PDS will implement peer reviews,	<u> </u>	<u> </u>	N/A	N/A	N/A	N/A	Requirement not satisfied
coordinated and conducted by the lead							with software.
node, to ensure completeness, accuracy							
and scientific usability of content							
2.4.4 PDS will publish a summary of the results of each peer review	2		N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.4.5 PDS will track the status of each			N/A	N/A	N/A	N/A	Requirement not satisfied
peer review 2.5.1 PDS will develop and publish			N/A	N/A	N/A	N/A	with software. Requirement not satisfied
procedures for accepting archival data							with software.
2.5.2 PDS will implement procedures fo	r		N/A	N/A	N/A	N/A	Requirement not satisfied
accepting archival data							with software.
2.5.3 PDS will inform a data provider			N/A	N/A	N/A	N/A	Requirement not satisfied
why a rejected archival product does no	t						with software.
meet archiving standards				****	****	***	
2.6.1 PDS will develop and publish			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for cataloging archival data	LARGO The system shall made to	IF DEC 2. The complete shall receipted	Da elletini.	D.::I-J 2	DEC 3		with software.
2.6.2 PDS will design and implement a	L4.REG.1 - The system shall maintain	L5.REG.3 - The service shall maintain	Registry	Build 2	REG.3		
catalog system for managing information about the holdings of the	distributed registries of products.	policy regarding the classes of artifacts to be registered.					
PDS	L4.REG.3 - The system shall register	L5.HVT.1 - The tool shall accept a	Harvest	Build 1-2	AAFUNCTIO	N.3 NODESTEST.	3
	products of a data delivery into an	configuration file specifying policy for			HVT.1 HVT.2		
	instance of the registry.	tool behavior.	_		HVT.5		
		L5.HVT.2 - The tool shall provide a			AAFUNCTIO	N.3 NODESTEST.	3
		command-line interface for execution.	_		HVT.1		
		L5.HVT.3 - The tool shall execute from			HVT.2		
		a scheduler.	_				
		L5.HVT.4 - The tool shall recursively			AAFUNCTIO	N.3 NODESTEST.	3
		traverse the specified directory or			HVT.1		
		directories in order to identify candidate products for registration.			HVT.2		
		L5.HVT.5 - The tool shall determine	_		AAFLINCTIO	N.3 NODESTEST.	3
		candidate products for registration			HVT.1 HVT.2		
		through a combination of the following			HVT.5		
		L5.HVT.6 - The tool shall capture	<u>-</u>			N.3 NODESTEST.	3
		metadata for a candidate product			HVT.1		
		specified by the product type.			HVT.2		
		L5.HVT.7 - The tool shall submit the	_			N.3 NODESTEST.	3
		associated metadata for a candidate			HVT.1		
		product to the specified Registry Service	1		HVT.2		
		instance.					
		L5.HVT.8 - The tool shall track each	_		AAFUNCTIO	N.3 NODESTEST.	3
		product registration.			HVT.1 HVT.2		
					HVT.5		
		L5.REG.1 - The service shall accept	Registry	Build 1-2	AAFUNCTIO		
		artifact registrations.	_		REG.1 REG.9		
		L5.REG.2 - The service shall provide a			AAFUNCTIO	٧.3	
		means for relating artifact registrations.	_		REG.2		
		L5.REG.4 - The service shall accept			AAFUNCTIO	V.3	
		metadata for a registered artifact in a			REG.1		
		defined format.	_				
		L5.REG.5 - The service shall validate			REG.1		
		metadata for a registered artifact.	-		AAFIINGTO	1.2	
		L5.REG.6 - The service shall assign a			AAFUNCTIO	N.3	
		global unique identifier to a registered artifact.			REG.4		
		L5.REG.7 - The service shall assign a			REG.5		
		version to a registered artifact based on					
		its logical identifier.					

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
		L5.REG.8 - The service shall store metadata for a registered artifact in an underlying metadata store.			AAFUNCTION.3	3	
	L4.REG.4 - The system shall allow for management of the metadata	L5.REG.9 - The service shall allow updates to registered artifacts.	Registry	Build 2	REG.6		
	associated with registered artifacts.	L5.REG.10 - The service shall allow approval of registered artifacts.	_		REG.6		
		L5.REG.11 - The service shall allow deprecation of registered artifacts.	_		REG.6		
		L5.REG.12 - The service shall allow undeprecation of registered artifacts.	_		REG.6		
	LS	L5.REG.13 - The service shall allow deletion of registered artifacts.	_		REG.1 REG.2 REG.4		
2.6.3 PDS will integrate the catalog wit the system for tracking data throughout the PDS	h L4.GEN.2 - The system shall provide t application programming interfaces for interacting with the components.	L5.GEN.3 - Services shall have an application programming interface.	Registry Search	Build 1-3	REG.1 SCH.3		
			Transport	Build 4	TPRT.1		
2.7.1 PDS will develop and publish procedures for storing archival data			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.7.2 PDS will maintain appropriate storage for the PDS archive			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.7.3 PDS will review its storage capacity and its anticipated storage requirements on a yearly basis			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.7.4 PDS will maintain appropriate storage for non-archived data managed by the PDS			N/A	N/A	N/A	N/A	Requirement not satisfied with software.

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
2.8.1 PDS will maintain a distributed archive where holdings are maintained	L4.GEN.1 - The system shall operate in a distributed environment.	deployable in a distributed environment.	All Components	Build 1-5	GEN.1		
by Discipline Nodes, specializing in subsets of planetary science		L5.GEN.2 - Components shall run on any PDS-supported platform.			GEN.1		
2.8.2 PDS will maintain a distributed catalog system which describes the holdings of the archive	L4.REG.1 - The system shall maintain distributed registries of products.	L5.REG.3 - The service shall maintain policy regarding the classes of artifacts to be registered.	Registry	Build 2-3	REG.3		
	L4.REG.2 - The system shall federate the registries.	L5.REG.15 - The service shall enable replication of registry contents with another instance of the service.	-	Build 4	REG.7		
		L5.REG.16 - The service shall enable verification of registry contents.	_	Build 4	REG.8		
2.8.3 PDS will provide standard protocols for locating, moving, and utilizing data, metadata and computing resources across the distributed archive, among PDS nodes, to and from missions, and to and from the deep		L5.GEN.3 - Services shall have an application programming interface.	Registry Search	Build 1-3	REG.1 SCH.3		
			Transport	Build 4	TPRT.1		
archive		L5.GEN.4 - Tools shall have an application programming interface.	Preparation Tools (Excluding Design)	Build 1-4	PRV.1 PRT.1		
2.8.4 PDS will work with other space agencies to provide interoperability among planetary science archives			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.8.5 PDS will provide an integrated on- line interface that provides information about and links to its data, services, and tools			Data Consumer Portal Search	Build 4	N/A	N/A	This is a cross-Node requirement and will require some thought as to how to test it.
2.8.6 PDS will implement common and discipline-specific services within the distributed architecture			Registry Search Transport	Build 1-4	N/A	N/A	This is a cross-Node requirement and will require some thought as to how to test it.
2.8.7 The PDS architecture will enable non-PDS developed tools to access PDS holdings and services	L4.GEN.2 - The system shall provide application programming interfaces for interacting with the components.	L5.GEN.3 - Services shall have an application programming interface.	Registry Search	Build 1-3	REG.1 SCH.3		
		L5.GEN.4 - Tools shall have an application programming interface.	Transport Preparation Tools (Excluding Design)	Build 4 Build 1-3	TPRT.1 PRV.1 PRT.1		
2.8.8 The PDS architecture will enable computational services on selected archival products			N/A	N/A	N/A	N/A	Requirement not satisfied with software, yet.
2.9.1 PDS will accept and distribute only those items which are not restricted by the International Traffic in Arms Regulations (ITAR)			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.9.2 PDS will ensure that online interfaces comply with required NASA	L4.GEN.5 - The system shall adhere to NASA-specified guidelines.	L5.GEN.9 - Applications shall meet Section 508 compliance guidelines.	All Applications	Build 3-5	SCH.2		
Guidelines		L5.SCH.3 - The service's browser-based user interface shall be Section 508 compliant and adhere to WCAG level A (or better) standards for accessibility.	l Search	Build 2-5	SCH.2		
2.9.3 PDS will meet U.S. federal regulations for the preservation and management of data.	L4.GEN.6 - The system shall secure Personally Identifiable Information (PII).	L5.RPT.3 - The service shall utilize a secure transfer protocol for transferring log files across the Internet.	Report	Build 2-5	RPT.1		
		L5.RPT.7 - The service shall control access to the user interface and metrics repository.			RPT.1		

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
2.9.4 PDS will fulfill obligations detailed in any applicable NASA Memorandum of Understanding (MOU)	·	·	N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.10.1 PDS will monitor the system and ensure continuous operation	L4.GEN.4 - The system shall enable monitoring of component health.	L5.GEN.8 - Services shall provide an interface to enable monitoring of the service's health.	Monitor All Services	Build 4	GEN.4		
2.10.2 PDS will identify and adopt technology standards (e.g., hardware and software) for the implementation and operations of the entire PDS system			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
2.10.3 PDS will ensure that appropriate mechanisms are in place to prevent	access to component interfaces that allow for ingestion or modification of data contained within the system. L4.SEC.1 - The system shall authorize access to system interfaces that allow for ingestion or modification of data contained within the system. L4.SEC.2 - The system shall maintain a list of authorized users. L4.SEC.2 - The system shall maintain a list of authorized users. Or	L5.GEN.10 - Components shall control access to interfaces that alter content.	All	Build 1-3	HVT.4		
		L5.SEC.1 - The service shall authenticate a user given identifying credentials for that user.	Security	Build 1-2	HVT.4		
		L5.SEC.2 - The service shall encrypt the transmission of identifying credentials across the network.			SEC.1		
		L5.SEC.3 - The service shall authorize an authenticated user for access to a controlled capability.	-		AAFUNCTION.3 HVT.4	1	
		L5.SEC.4 - The service shall allow an operator of the system to create, update or delete a user identity.	-		SEC.1		
		L5.SEC.5 - The service shall capture identifying information associated with a user identity.	-		SEC.1		
		L5.SEC.6 - The service shall allow an operator of the system to create, update or delete a group identity.	date n		SEC.1		
		L5.SEC.7 - The service shall allow an operator of the system to add or remove a user from a group.			SEC.1		
3.1.1 PDS will provide online interfaces allowing users to search the archive	s L4.QRY.1 - The system shall provide the capability to search for and identify artifacts registered with the PDS.	L5.REG.14 - The service shall allow queries for registered artifacts.	Registry	Build 1-2	REG.1 REG.2 REG.4		
		L5.SCH.1- The service shall provide a user interface for entering of queries and display of search results accessible from a standards-compliant web	Data Consumer Portal Search	Build 2-3	AAFUNCTION.4 SCH.5	NODESTEST.	4
		browser. L5.SCH.2 - The service shall degrade gracefully on browsers that lack modern features and not depend on them for operation.	Data Consumer Portal Search	Build 2-3	SCH.1		
		L5.SCH.4 - The service shall provide a programmatic interface for entering of queries and return of search results that communicates over HTTP for use by client applications developed by PDS,	Search	Build 2-3	SCH.3		
		PDS nodes, and others. L5.SCH.5 - The service shall provide the capability to retrieve metadata associated with registered artifacts for the purpose of generating search indexes.	Search	Build 2-3	AAFUNCTION.4 SCH.4		
		L5.SCH.6 - The service shall support searching by accepting criteria as a sequence of open text keywords.	Search	Build 2-3	AAFUNCTION.4 SCH.5	NODESTEST.	4

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test Comment
		L5.SCH.7 - The service shall support	Search	Build 2-3	SCH.6	NODESTEST.4
		searching by accepting criteria as a				
		series of values for constraints on				
		specified indexes. L5.SCH.8 - The service shall support	Search	Build 2-3	A A FLINICTION A	NODESTEST.4
		narrowing of additional index results	Search	bullu 2-3	SCH.6	NODESTEST.4
		based on specifications of terms and/or			3011.0	
		values on indexes.				
		L5.SCH.9 - The service shall support	Search	Build 2-3	AAFUNCTION.4	ļ.
		the ordering of results based on			SCH.6	
		specified criteria including relevance and				
		specified indexes.				
		L5.SCH.10 - The service shall provide	Search	Build 2-3		NODESTEST.4
		results to a search as a sequence of			SCH.7	
		matching URIs to resources that contain search desiderata.				
		L5.SCH.11 - The service shall annotate	Search	Build 2-3	AAFUNCTION 4	NODESTEST.4
		each URI of a result with metadata	Scarcii	Bulla 2 3	SCH.7	Nobestealit
		describing the URI.				
		L5.SCH.12 - The service shall support	Search	Build 2-3	AAFUNCTION.4	
		configuration on the kinds of indexes				
		maintained on indexed data, including				
		indexes that differ by data type, by data				
		conversion, by index generation				
		methodology, and by metadata maintenance for result annotation.				
		L5.SCH.13 - The service shall capture	Search	Build 4	SCH.9	
		metrics pertaining to its search indexes	Search	Dullu 4	3011.9	
		usage and contents.				
3.1.2 PDS will provide online interfaces	L4.QRY.2 - The system shall provide	L5.SCH.1- The service shall provide a	Data Consumer Portal	Build 3	AAFUNCTION.4	NODESTEST.4
for discipline-specific searching	the capability to search for and identify	user interface for entering of queries	Search		SCH.5	
	artifacts within a defined scope (i.e., a	and display of search results accessible				
	single discipline).	from a standards-compliant web				
		browser.		5 11 1	00111	
		L5.SCH.2 - The service shall degrade gracefully on browsers that lack modern	Data Consumer Portal	Build 4	SCH.1	
		features and not depend on them for	Search			
		operation.				
		L5.SCH.4 - The service shall provide a	Search	Build 3	SCH.3	
		programmatic interface for entering of				
		queries and return of search results that				
		communicates over HTTP for use by				
		client applications developed by PDS,				
		PDS nodes, and others.				
		L5.SCH.5 - The service shall provide	Search	Build 3	AAFUNCTION.4 SCH.4	•
		the capability to retrieve metadata associated with registered artifacts for			SCH.4	
		the purpose of generating search				
		indexes.				
		L5.SCH.6 - The service shall support	Search	Build 3	AAFUNCTION.4	NODESTEST.4
		searching by accepting criteria as a			SCH.5	
		sequence of open text keywords.				
		L5.SCH.7 - The service shall support	Search	Build 3	SCH.6	NODESTEST.4
		searching by accepting criteria as a				
		series of values for constraints on				
		specified indexes. L5.SCH.8 - The service shall support	Search	Build 3	A A ELINICATION A	NODESTEST.4
		narrowing of additional index results	Searcii	bullu 3	SCH.6	NODE31631.4
		based on specifications of terms and/or			JC11.0	
		values on indexes.				
		values of fillucaes.				

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
		L5.SCH.9 - The service shall support the ordering of results based on specified criteria including relevance and	Search	Build 3	AAFUNCTION.4 SCH.6		
		specified indexes. L5.SCH.10 - The service shall provide results to a search as a sequence of matching URIs to resources that contain search desiderata.	Search	Build 3	AAFUNCTION.4 SCH.7	NODESTEST.4	
		L5.SCH.11 - The service shall annotate each URI of a result with metadata describing the URI.	Data Consumer Portal Search	Build 3	AAFUNCTION.4 SCH.7	NODESTEST.4	
		L5.SCH.12 - The service shall support configuration on the kinds of indexes maintained on indexed data, including indexes that differ by data type, by data conversion, by index generation methodology, and by metadata maintenance for result annotation.	Search	Build 3	AAFUNCTION.4		
		L5.SCH.13 - The service shall capture metrics pertaining to its search indexes usage and contents.	Search	Build 4	SCH.9		
3.1.3 PDS will allow products identified within a search to be selected for retrieval	L4.QRY.2 - The system shall provide the capability to search for and identify artifacts within a defined scope (i.e., a	L5.SCH.11 - The service shall annotate each URI of a result with metadata describing the URI.	Data Consumer Portal Search	Build 4	AAFUNCTION.4 SCH.7		This aspect of the requirement not satisfied until Build 4b.
3.2.1 PDS will provide online mechanisms allowing users to download portions of the archive	L4.TRS.1 - The system shall provide	L5.TRS.1 - The service shall accept requests for download of PDS products.	Transport	Build 4	TPRT.1		
		L5.TRS.2 - The service shall accept requests for download of an individual file.	-				
		L5.TRS.4 - The service shall package the requested product(s) or file into the specified format. L5.TRS.6 - The service shall transfer	-				
		the result of a request via HTTP to the calling application.					
3.2.2 PDS will provide a mechanism for offline delivery of portions of the archive to users			N/A	N/A	N/A	N/A	Requirement not satisfied with software.
3.2.3 PDS will provide mechanisms to ensure that data have been transferred intact	L4.TRS.2 - The system shall provide the capability to verify integrity of downloaded artifacts.	L5.TRS.5 - The service shall include a checksum manifest listing all files contained in the result of a request along with their associated MD5 checksums.	Transport	Build 4	TPRT.2		
3.3.1 PDS will provide expert help in use of data from the archive			N/A	N/A	N/A		Requirement not satisfied with software.
3.3.2 PDS will provide a capability for opening and inspecting the contents (e.g. label, objects, groups) of any PDS compliant archival product	L4.PRP.5 - The system shall provide a tool for visualizing PDS products as follows		Preparation Tools	Build 4-5			Requirement will be fully satisifed in a future build.
3.3.3 PDS will provide tools for translating archival products between selected formats	L4.PRP.4 - The system shall provide a tool for transforming PDS products as follows		Preparation Tools Transport	Build 4-5	PRT.1		
		L5.TRS.3 - The service shall transform the requested product(s) or file into the specified format.	Transport	Build 4	TPRT.3		
3.3.4 PDS will provide tools for translating archival products between selected coordinate systems	L4.PRP.4 - The system shall provide a tool for transforming PDS products as follows		Preparation Tools				Requirement will be satisifed in a future build.

Level 3 Requirement	Level 4 Requirement	Level 5 Requirement	Component	Build	EN Test	Node Test	Comment
3.3.5 PDS will provide tools for	L4.PRP.5 - The system shall provide a	•	Preparation Tools	Build 4-5			Requirement will be fully
visualizing selected archival products	tool for visualizing PDS products as follows						satisifed in a future build.
3.3.6 PDS will provide a mechanism for			Subscription				Requirement will be satisifed
notifying subscribed users when a data			,				in a future build.
set is released or updated							
3.3.7 PDS will solicit input from the use	r		N/A	N/A	N/A	N/A	Requirement not satisfied
community on services desired				·			with software.
4.1.1 PDS will define and maintain a set	t		N/A	N/A	N/A	N/A	Requirement not satisfied
of quality, quantity, and continuity							with software.
(QQC) requirements for ensuring long							
term preservation of the archive							
4.1.2 PDS will develop and implement			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for periodically ensuring the							with software.
integrity of the data							
4.1.3 PDS will develop and implement			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for periodically refreshing							with software.
the data by updating the underlying							
storage technology							
4.1.4 PDS will develop and implement a	1		N/A	N/A	N/A	N/A	Requirement not satisfied
disaster recovery plan for the archive							with software.
4.1.5 PDS will meet U.S. federal			N/A	N/A	N/A	N/A	Requirement not satisfied
regulations for preservation and							with software.
management of the data through its							
Memorandum of Understanding (MOU)							
with the National Space Science Data							
Center (NSSDC)							
4.2.1 PDS will define and maintain a set	t		N/A	N/A	N/A	N/A	Requirement not satisfied
of usability requirements to ensure							with software.
ongoing utility of the data in the archive							
4.2.2 PDS will develop and implement			N/A	N/A	N/A	N/A	Requirement not satisfied
procedures for periodically monitoring							with software.
the user community interests and							
practices and verifying the usability of							
the products in the archive							
4.2.3 PDS will monitor the evolution of			N/A	N/A	N/A	N/A	Requirement not satisfied
technology including physical media,							with software.
storage, and software in an effort to							
keep the archiving technology decisions							
relevant within the PDS							
4.2.4 PDS will provide a mechanism to			Catalog Tool	Build 2-4	CTLG.1 CTLC	G.2	
upgrade products or data sets which do					CTLG.3		
not meet usability requirements (e.g.,							
data sets from old missions)							