

**PDS Engineering Node Master Schedule**

ID	WBS	Activity Name	Staff	Start Date	Finish Date	% Complete	2005				2006				2007					
							4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	
1	1	Systems Engineering																		
2	1.1	Standards																		
3	1.1.1	Approve JPEG 2000 as archive	ER	12/31/05		100.0%		▼												
4	1.1.1.1	Informative presentation to Tech Session		8/31/05		100.0%														
5	1.1.1.2	SCR and StdRef update distributed to SCR WG for review	ER	9/12/05		100.0%														
6	1.1.1.3	Present full draft of SCR to Tech	ER	9/28/05		100.0%	▼													
7	1.1.1.4	Informative presentation to MC	ER	10/5/05		100.0%	▼													
8	1.1.1.5	Tech Group vote on draft - Standards telecon		10/26/05		100.0%	▼													
9	1.1.1.6	Full SCR distributed to MC for their review		11/7/05		100.0%	▼													
10	1.1.1.7	MC vote on SCR		11/15/05		100.0%	▼													
11	1.1.1.8	Complete implementation into PSDD and StdRef		12/31/05		100.0%		▼												
12	1.1.2	Standards Cleanup																		
13	1.1.2.1	Get DN input for scheduling and priorities	ER	10/21/05		100.0%	▼													
14	1.1.2.2	Organize DN input into PDS3/PDS4 and Present to MC	ER	11/15/05		100.0%	▼													
15	1.1.2.3	Configure Standards Development website	ER	3/10/06		100.0%			▼											
16	1.1.2.4	Implement Standards Development Interface	ER	5/26/06		100.0%				▼										
17	1.1.3	Directory Naming Conventions	ER	8/11/05		100.0%														
18	1.1.4	Release Standards Reference V3.7	ER	2/13/06		100.0%			▼											
19	1.1.5	Spectral Cube SCR	ER	1/2/06		100.0%		▼												
20	1.1.6	2005 Q4 Standards Updates -	ER	1/2/06		100.0%		▼												
21	1.1.7	2006 Q1 Standards Updates -	ER	3/31/06		100.0%				▼										
22	1.1.8	Clean-up PDS3 Standards	ER	6/30/06		80.0%					▼									
23	1.1.9	Agency Id SCR - Replan (withdrawn)		5/19/06		100.0%					▼									
24	1.1.10	Address Validation Tool/DD Issues	ER, JSH, RJ	1/1/07		60.0%														▼
25	1.1.11	Setup Data Integrity Working Group	DC, ER	9/22/06		100.0%														▼
26	1.1.11.1	Develop Use Cases	JSH, DC	9/8/06		90.0%														▼
27	1.1.11.2	Develop Requirements	JSH, DC	9/29/06		50.0%														▼
28	1.2	Architecture																		
29	1.2.1	PDS Systems Architecture																		
30	1.2.1.1	Write Initial Draft	JSH/DC	12/1/05		100.0%	▼													
31	1.2.1.2	Write PDS-D Interface Section	JSH/DC	6/1/06		50.0%					▼									

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							4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q		
32	1.2.1.3	Final Edit and Release	JSH/DC	10/2/06		0.0%											
33	1.2.1.4	Create PDS Data Model Knowledge Base	JSH	9/22/06		90.0%											
34	1.2.1.5	Document PDS Model	JSH	9/22/06		75.0%											
35	1.2.2	Document Process for Data Node Configuration (THEMIS, HiRISE)															
36	1.2.2.1	Release Draft for review by PM	RJ	8/1/05		100.0%											
37	1.2.2.2	Release Document for MC review		11/3/05		100.0%	▼										
38	1.2.2.3	Update and Re-release	RJ	12/1/05		100.0%	▼										
39	1.2.2.4	Final Edit and Release	RJ, DS	2/24/06		100.0%		▼									
40	1.2.3	Plan and Document FY05 System Release	RJ	9/1/05		100.0%											
41	1.3	System Functions															
42	1.3.1	Mirror Site Requirements	JSH	10/26/05		100.0%	▼										
43	1.3.2	PhoneBook Update Requirements	JSH	11/11/05		100.0%	▼										
44	1.3.3	Data Set Update Requirements	JSH	11/30/05		100.0%	▼										
45	1.3.4	Data Engineering Process - Document - Replan	RJ	7/3/06		100.0%				▼							
46	1.3.5	Develop PDS Catalog/DN data holdings reconciliation application	JSH	3/31/06		100.0%			▼								
47	1.3.6	Develop primary and backup node repository identification, reconciliation, and catalog update	JSH	4/28/06		100.0%				▼							
48	1.3.7	Level1, Level2, and Level 3 Requirements development	DC	3/31/06		100.0%			▼								
49	1.3.8	Document and Review Data Engineering Process	RJ	5/22/06		80.0%				▼							
50	1.3.9	Validation Tool Support															
51	1.3.9.1	Write Phase I Requirements	JSH, RJ, SH	1/2/06		100.0%		▼									
52	1.3.9.2	Write Phase I Test Plan	RJ, EL	6/5/06		100.0%				▼							
53	1.3.9.3	Write Phase I Test Report	RJ	9/1/06		100.0%											
54	1.3.9.4	Write Phase II Use Cases	RJ	9/29/06		75.0%											
55	1.3.9.5	Write Phase II Requirements	RJ	9/29/06		75.0%											
56	1.3.10	Label Design Tool Support															
57	1.3.10.1	Write Use Case Document	JSH, RJ	9/29/06		75.0%											
58	1.3.10.2	Write Requirements Document	JSH, RJ	9/29/06		50.0%											
59	1.4	Advanced Technology															
60	1.4.1	Interoperability															
61	1.4.1.1	PSA/PDS Interoperability															
62	1.4.1.1.1	Release Version 1.0 of White Paper	JSH, PO, JZ	7/15/05		100.0%											

Fourth Q | First Q | Second Q | Third Q | Fourth Q | First Q | Second Q | Third Q | Fourth Q

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							4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q
63	1.4.1.1.2	Planetary Data Access Protocol - Tech Paper	JSH, DC, PSA	2/24/06		100.0%		▼											
64	1.4.1.1.3	Implement MEX/GRS Prototype	Dvlp	7/28/06		100.0%				▼									
65	1.4.1.2	Develop International Planetary Data Alliance (IPDA) concept	JSH, DC, PSA	8/1/06		90.0%				▼									
66	1.4.1.3	Hold "International Cooperation" kickoff meeting.		5/24/06		100.0%				▼									
67	1.4.1.4	Participate on MC Core Compatibility Standards WG	JSH	9/22/06		0.0%						▼							
68	1.4.1.5	Initiate Archive Standards WG		8/16/06		100.0%						▼							
69	1.4.1.5.1	Write Charter		9/8/06		100.0%						▼							
70	1.4.1.5.2	Develop Use Cases and Requirements		9/29/06		75.0%						▼							
71	1.4.1.6	Plan integration of SBN into PDS-D Architecture		11/7/05		100.0%	▼												
72	1.4.1.7	Plan integration of PPI into	EL, SH, JSH	3/24/06		100.0%		▼											
73	1.4.2	Technology Investigations																	
74	1.4.2.1	Data Movement - Point-to-Point movement of large data volumes																	
75	1.4.2.1.1	Deploy GridFTP, etc and compare LAN transfer speeds	CM, SK	8/8/05		100.0%													
76	1.4.2.1.2	Deploy GridFTP, etc and compare WAN tranfer speeds	CM, SK, CI	8/22/05		100.0%													
77	1.4.2.1.3	Technology Comparison Matrix	CM,RJ	12/16/05		100.0%	▼												
78	1.4.2.1.4	Write and Publish White Paper at Mass Storage Conference	RJ, CM	5/10/06		100.0%				▼									
79	1.4.2.1.5	Form storage media working group	SE	3/31/06		100.0%				▼									
80	1.4.2.2	General Search																	
81	1.4.2.2.1	Develop PDS Data Set Ontology	JSH	3/9/05		100.0%													
82	1.4.2.2.2	Standardize on language and metadata structure	JSH	6/6/05		100.0%													
83	1.4.2.2.3	Prototype Facet-based Data Set Search	JSH	7/5/05		100.0%													
84	1.4.2.2.4	Prototype Text-base Data Set	PR	7/5/05		100.0%													
85	1.4.2.2.5	Write White Paper and prepare Technology Comparison	RJ, JSH, PR	12/15/05		100.0%	▼												
86	1.4.2.2.6	Gather requirements for DS Search	RJ, PR, SH	12/30/05		100.0%	▼												

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Fourth Q First Q Second Q Third Q Fourth Q First Q Second Q Third Q Fourth Q

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							4th Q				1st Q				2nd Q				3rd Q				4th Q			
							4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q			
<b>87</b>	1.4.2.2.7	Present Google-like Search prototype and paper to MC	RJ, DC	2/15/06		100.0%		▼																		
<b>88</b>	1.4.2.2.8	Support and monitor deployment of Google-like	PR, JSH, SH	10/2/06		100.0%					▼															
<b>89</b>	1.4.2.3	Physical Media Working Group	DC, RJ	4/28/06		100.0%			▼																	
<b>90</b>	1.4.2.3.1	Node Survey - Present to MC	RJ, DC	5/29/06		100.0%				▼																
<b>91</b>	1.4.2.3.2	Develop matrix of data movement/delivery recommendations	RJ	9/22/06		50.0%					▼															
<b>92</b>	1.4.2.4	Develop PDS Portal	DC, EL, JSH	9/22/06		75.0%					▼															
<b>93</b>	1.4.2.5	Plan for Technical Session	DC, JSH	9/22/06		99.0%					▼															
<b>94</b>	2	<b>Development</b>																								
							Fourth Q	First Q	Second Q	Third Q	Fourth Q	First Q	Second Q	Third Q	Fourth Q	First Q	Second Q	Third Q	Fourth Q							

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							4th Q	1st Q	2nd Q	3rd Q	4th Q	1st Q	2nd Q	3rd Q	4th Q				
95	2.1	Tools																	
96	2.1.1	Legacy Tools																	
97	2.1.1.1	Release 4.4...		10/4/04	10/14/05	100.0%													
98	2.1.1.2	Release 4.5...		9/6/05	3/23/06	100.0%													
99	2.1.1.3	Release 4.6																	
100	2.1.1.3.1	Track and analyze issues	MC, DS	3/27/06	11/3/06	75.0%													
101	2.1.1.3.2	Implement changes	MC, DS	3/27/06	11/3/06	75.0%													
102	2.1.1.3.3	Unit Test	MC	11/6/06	11/10/06	0.0%													
103	2.1.1.3.4	Prepare and test installation bundles	MC	11/13/06	11/17/06	0.0%													
104	2.1.1.3.5	Deliver to Operations	MC	11/17/06		0.0%													
105	2.1.2	Next Generation Tools																	
106	2.1.2.1	Validation Tool																	
107	2.1.2.1.1	Prepare Tools Survey Summary and strawman development	SH	7/11/05	7/15/05	100.0%													
108	2.1.2.1.2	Present survey and plan to MC	SH	7/18/05		100.0%													
109	2.1.2.1.3	Prepare Requirements	SH, RJ, JSH	7/25/05	11/10/05	100.0%													
110	2.1.2.1.4	Present plan to MC (Approved)	DC	10/5/05		100.0%													
111	2.1.2.1.5	Prepare Requirements (second draft of the requirements based on comments)	SH	11/14/05	1/6/06	100.0%													
112	2.1.2.1.6	Review by Node Tech Staff	Nodes	1/9/06	2/22/06	100.0%													
113	2.1.2.1.7	Requirements Review	SH	2/23/06		100.0%													
114	2.1.2.1.8	Prepare Requirements (third draft based on RFAs)	SH	2/24/06	3/31/06	100.0%													
115	2.1.2.1.9	Present Tools Report to MC	SH	3/2/06		100.0%													
116	2.1.2.1.10	Design	PR, MC, SH	3/6/06	9/22/06	90.9%													
117	2.1.2.1.11	Implement	PR, MC	3/20/06	10/6/06	85.0%													
118	2.1.2.1.12	Preliminary Design Review	SH, PR	6/1/06		100.0%													
119	2.1.2.1.13	External Code Walk-through	PR, SH, SK	6/21/06	6/22/06	100.0%													
120	2.1.2.1.14	Pre Alpha/Beta Test Telecon	SH, EL	7/13/06		100.0%													
121	2.1.2.1.15	Alpha Test Phase I	Nodes	8/1/06	8/18/06	100.0%													
122	2.1.2.1.16	Alpha Test Status Telecon	SH, EL	8/31/06		100.0%													
123	2.1.2.1.17	Alpha Test Phase II	Nodes	9/11/06	9/29/06	0.0%													
124	2.1.2.1.18	Alpha Test Status Telecon	SH, EN	10/5/06		0.0%													
125	2.1.2.1.19	Beta Test	Nodes	10/9/06	10/27/06	0.0%													
126	2.1.2.1.20	Beta Test Status Telecon	SH, EL	11/2/06		0.0%													
127	2.1.2.1.21	Prepare Release	PR, SH	10/30/06	11/10/06	0.0%													
128	2.1.2.1.22	Deliver to Operations	SH	11/10/06		0.0%													

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129	2.1.2.2	Design Tool																		
130	2.1.2.2.1	Gather Information	SH	11/7/05	11/25/05	100.0%	◆													
131	2.1.2.2.2	Prepare for Tech Session	SH	9/4/06	9/15/06	0.0%					◆									
132	2.2	Infrastructure																		
133	2.2.1	PDS-NSSDC Interface																		
134	2.2.1.1	Preliminary Assessment	J. Wilf	9/29/04		100.0%														
135	2.2.1.2	NSSDC delivers MPGA software	NSSDC	8/8/05		100.0%														
136	2.2.1.3	Install/Test software at JPL	NSSDC, MC	8/8/05	8/26/05	100.0%														
137	2.2.1.4	Prepare initial test plan	SH	9/26/05	10/14/05	100.0%	◆													
138	2.2.1.5	Coordinate test plan with NSSDC	SH	10/17/05	10/21/05	100.0%	◆													
139	2.2.1.6	Test Phase I	MC, NSSDC	10/24/05	11/8/05	100.0%	◆													
140	2.2.1.7	Test Phase II	MC, NSSDC	11/21/05	12/2/05	100.0%	◆													
141	2.2.1.8	Test Phase III	MC, NSSDC	12/12/05	1/6/06	100.0%	◆													
142	2.2.1.9	Document test results	MC, SH	10/24/05	1/6/06	100.0%	◆													
143	2.2.1.10	Present report to MC	SH	3/2/06		100.0%				▼										
144	2.2.1.11	Receive/Test software at JPL (supporting > 2GB)	MC	3/20/06	5/2/06	100.0%				◆										
145	2.2.1.12	Receive/Test software at JPL (production ready)	MC	10/2/06	10/27/06	0.0%						◆								
146	2.2.1.13	Facilitate Node/NSSDC transfer	EN, Nodes	10/30/06	11/24/06	0.0%						◆								
147	2.2.1.14	Document Interface and Process	SH	11/6/06	12/8/06	0.0%						◆								
148	2.2.1.15	Deliver to Nodes	SH	12/11/06		0.0%							▼							
149	2.2.2	PDS-D Upgrade...		5/30/05	12/9/05	100.0%	◆		◆	◆		◆								
150	2.2.3	Ingestion Interface (pdsproto)...		6/13/05	10/28/05	100.0%	◆													
151	2.2.4	Integrate PDS-D Architecture into all Nodes																		
152	2.2.4.1	Prepare default Profile Server documentation	JW, SL	9/26/05	10/14/05	100.0%	◆													
153	2.2.4.2	Small Bodies...		11/28/05	5/5/06	50.0%	◆	◆	◆											
154	2.2.4.3	PPI...		3/6/06	4/28/06	33.3%			◆	◆										
155	2.2.5	ADS related Data Set Loading...		12/19/05	3/17/06	100.0%	◆													
				4/21/06		0.0%				◆										
156	2.2.6	Cassini Archive Tracking System																		
157	2.2.6.1	Install instance at EN	MC, ES, AT	4/3/06	4/19/06	100.0%				◆										
158	2.2.6.2	Configure and Test	MC	4/20/06	5/5/06	100.0%				◆										
159	2.2.6.3	Node Specific Test	Geo	5/8/06	7/14/06	100.0%				◆										
160	2.2.6.4	Prepare instance for Phoenix	MC, SH	9/11/06	12/1/06	0.0%						◆								
161	2.2.6.5	Deliver to Operations	MC	12/1/06		0.0%							▼							
162	2.2.7	Profile Servers...		5/8/06	7/25/06	100.0%				◆										







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235	3.3	Web Development																		
236	3.3.1	Develop EN home page	VH, Leads	8/1/05	9/12/05	100.0%														
237	3.3.2	Develop Release D03.3.1 (Sub.	VH	8/1/05	8/19/05	100.0%														
238	3.3.3	Validate system hyperlinks	VH	8/22/05	10/7/05	100.0%	◆													
239	3.3.4	Correct resource links	VH, JH	10/12/05	10/19/05	100.0%	◆													
240	3.3.5	Review web security		10/10/05	10/21/05	100.0%	◆													
241	3.3.6	Develop Release D03.3.3																		
242	3.3.6.1	#243 Delete Phone book detail 'Update?' link	VH	10/24/05	10/28/05	100.0%	◆													
243	3.3.6.2	#239 Delete Data Provider Utilities from Home Pages	VH	10/24/05	10/28/05	100.0%	◆													
244	3.3.6.3	#6 Release Object Screen	JH	10/24/05	11/14/05	100.0%	◆													
245	3.3.6.4	#248 Add "What's New" and "Alert" sections	VH	11/28/05	12/13/05	100.0%	◆													
246	3.3.6.5	#249 Remove links to pdsstartree	VH	12/13/05	12/14/05	100.0%	◆													
247	3.3.7	EN Web Page Release #2																		
248	3.3.7.1	#7 Add Catalog Search from	VH	10/24/05	11/22/05	100.0%	◆													
249	3.3.7.2	#239 Add Data Provider Utilities from Home Page	JH	12/1/05	5/31/06	100.0%	◆	◆	◆	◆										
250	3.3.7.3	#250 Changes for EN Login page	JH	12/22/05	5/31/06	100.0%	◆	◆	◆	◆										
251	3.3.7.4	Implement edits from EN Leads	VH	11/4/05	12/8/05	100.0%	◆													
252	3.3.8	EN page update (on-going)																		
253	3.3.9	Web Interface Use Cases Document	EI, MR	8/14/06	9/29/06	100.0%					◆									
254	3.3.10	508 Compliance																		
255	3.3.11	Develop Release D03.4.1																		
256	3.3.11.1	#71 Display DD version on the PDS Data Dictionary Lookup page	JH	2/21/06	4/14/06	100.0%		◆	◆											
257	3.3.11.2	#81 Change bookmark header (<title> tags) to identify specific pages	JH	6/7/06	6/30/06	100.0%				◆										
258	3.3.11.3	#202 Add link to previous versions of PDSDD from Dictionary Lookup Page	JH	2/21/06	4/14/06	100.0%		◆	◆											
259	3.3.11.4	#215 Data dictionary lookup window devoid of controls	JH	11/1/06	11/29/06	0.0%						◆	◆							
260	3.3.11.5	#228 Add print function to Data Dictionary Lookup Tool	JH	12/1/06	12/29/06	0.0%							◆	◆						
261	3.3.11.6	#205 Add details on differences between versions of pdsdd	Ho, Rye	10/24/05	12/5/05	100.0%	◆													

Fourth Q   First Q   Second Q   Third Q   Fourth Q   First Q   Second Q   Third Q   Fourth Q



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297	3.6.2	Correct Raid directory name	CS	8/15/05	8/31/05	100.0%												
298	3.6.3	Subscription notification list cleanup	CS	8/7/06	12/29/06	59.1%												
299	3.6.4	Raid group directory clean-up and verify data set links	CS	1/2/06	11/30/06	90.8%												
300	3.6.5	Inventory documentations and send to Records	CS	6/12/06	10/6/06	94.4%												
301	3.6.6	Inventory and send all copies to NSSDC for RS		12/5/05	1/31/06	100.0%												
302	3.7	Process																
303	3.7.1	Change Request	EL	9/26/05	10/14/05	100.0%												
304	3.7.2	Engineering Processes	SH, EL	9/26/05	12/30/05	100.0%												
305	3.7.3	Issue Tracking plan	EL	8/29/05	9/16/05	100.0%												
306	3.7.3.1	Tool selection	EL, VH, ER	8/15/05	8/26/05	100.0%												
307	3.7.4	Data Engineering Processes	EL, RJ	3/1/06	11/24/06	91.1%												
							Fourth Q	First Q	Second Q	Third Q	Fourth Q	First Q	Second Q	Third Q	Fourth Q			