

Previous month PT1.2 - Mgt/SE

Current month PT1.2

Next month PT1.2 - Mgt/SE

**Note:** Please place an asterisk (\*) after the percent if you updated this value in this report. Also, please update the "Last Updated" column even if the % complete hasn't changed; that way we'll know that the figure represents the most current information.

**Note:** Critical? refers to level of need for Preliminary Design Review: XX = Must complete, X = Valuable to complete but already good enough, Blank = Nice to have.

Task	Critical?	Start	Finish	Resources (lead first)	% Complete	Comments
<i>Database and Data Access Analyses</i>				Jacek Becla		Have all for pdr on docu
Scalability tests phase III (up to 250 nodes)	XX	20110303	20110607	Becla Jacek[10%], Wang Daniel[75%], Dubois-Felsmann Gregory[5%]	80%	Docume ready
SSD Database Tests		20100802	20110603	Becla Jacek	95%	Still need the sum docume
Improve trac db documentation for PDR	X	20090902	20110613	Becla Jacek[10%]	60%	
Write design document for PDR	XX	20110614	20110711	Becla Jacek[5%], Lim KT[5%], Hanushevsky Andy[20%]	75%	
<i>Pipeline Execution Middleware Scaling Tests</i>				KT Lim, Ray Plante		
Define scaling tests		20110222	20110606	Plante Ray[5%]	50%	
Create benchmark stage implementations and pipeline configurations		20110606	20110627	Daues Greg[25%]	0%	
Execute scaling tests, analyze, report results		20110627	20110718	Daues Greg[25%]	0%	
<i>Pipeline Execution Monitoring Visualization Tool</i>				Ray Plante		
Design/acquire/review pipeline processing visualization tool		20110301	20110617	Plante Ray[5%], Pietrowicz Steve[25%]	75%	
Implement pipeline processing visualization tool		20110322	20110628	Pietrowicz Steve[75%]	75%	Feedba
Demonstrate rescheduling of failed processing		20110222	20110628	Pietrowicz Steve[75%]	75%	Show in movie a confere

Create simulated worker failure mechanism		20110301	20110613	Pietrowicz Steve[50%]	75%	
Enable detection of failure and mapping to job		20110315	20110617	Pietrowicz Steve[75%]	75%	
Enable rescheduling of failed job		20110322	20110628	Pietrowicz Steve[75%]	75%	
<i>MOPS Analyses</i>				<i>Tim Axelrod</i>		
Complete analysis of runs of FindTracklets/LinkTracklets and OrbFit driven by simulated DIASources		20081010	20110613	Axelrod Tim[20%],Myers Jonathan[75%]	75%	Determine number returned LinkTracklets reduced orders of use of a prob(ch of the c quadrat Significant true track eliminat
Estimate amount of CPU required for LSST MOPS		20101108	20110615	Axelrod Tim[20%],Myers Jonathan[75%]	75%	
Prototype key algorithms in MOPS design		20101206	20110706	Axelrod Tim[20%],Myers Jonathan[75%]	50%	
Determine requirements for FutureMOPS that will satisfy solar system science requirements as sketched out in SRD		20110117	20110713	Axelrod Tim[20%],Myers Jonathan[75%]	50%	
Write up results for PDR	XX	20110714	20110727	Axelrod Tim[20%],Myers Jonathan[75%]	0%	
<i>Complete DM content in LSR and OSS</i>				<i>Gregory Dubois-Felsmann</i>		
Update star and galaxy counts		20100908	20110606	Dubois-Felsmann Gregory[5%]	75%	Ivezic/J has been they are further question from gp values v forward action o update v into the revision require
Extract values for Data Quality Requirements	XX	20101020	20110606	Dubois-Felsmann Gregory[5%]	75%	On hold results f

							commit
Capture network requirements in SysML model	XX	20110602	20110602	Dubois-Felsmann Gregory[5%]	0%		
Capture cyber-security requirements in SysML model	XX	20110603	20110609	Dubois-Felsmann Gregory[5%]	0%		
Support establishment of traceability between LSR and OSS		20100901	20110630	Dubois-Felsmann Gregory[15%]	53%		Isolated to trace conjunction addition
Establish bounding requirements in SysML for MOPS	XX	20101206	20110622	Dubois-Felsmann Gregory[5%]	50%		Was aw from Tim apparent complet
<i>Revise DM-FRS</i>				<i>Gregory Dubois-Felsmann</i>			
Flow down OSS requirements to FRS (aka DMSR) and revise FRS accordingly	XX	20110602	20110608	Dubois-Felsmann Gregory[50%]	0%		
Restate existing quantitative requirements as constraint blocks		20110418	20110609	Dubois-Felsmann Gregory[50%]	75%		Needs f
Establish traceability of FRS to OSS (or elsewhere)		20110630	20110711	Dubois-Felsmann Gregory[50%]	0%		Isolated to trace conjunction addition
Review traceability with Tim and Chuck, clean up		20110711	20110714	Dubois-Felsmann Gregory[50%],Axelrod Tim[50%]	0%		
<i>Update Structure Model</i>				<i>Gregory Dubois-Felsmann</i>			
Update Structure Model to match revised WBS		20110418	20110602	Dubois-Felsmann Gregory[50%]	50%		Needs t for MREFC WBS.
Create DM internal ICD N2 diagram		20110603	20110603	Dubois-Felsmann Gregory[50%]	0%		
Update Structure Model - FRS traceability		20110711	20110713	Dubois-Felsmann Gregory[50%]	0%		
<i>Prepare ICDs</i>				<i>Gregory Dubois-Felsmann</i>			
DM-CCS	X	20110103	20110627	Dubois-Felsmann Gregory[25%],Marshall Stuart[25%]	33%		
DM-TCS	X	20110309	20110630	Sebag Jacques[50%],Dubois-Felsmann Gregory[50%]	40%		
DM-OCS	X	20110317	20110708		40%		

				Dubois-Felsmann Gregory[50%],Schumacher German[50%]		Need to and OC
DM-EPO	X	20110602	20110616	Jacoby Suzanne[50%],Dubois-Felsmann Gregory[20%]	0%	DM-EP at AHM progress larger E understa need; re contact
DM-sites	X	20110516	20110621	Dubois-Felsmann Gregory[50%],Lambert Ron[50%],Barr Jeff[50%]	50%	
DM - VAO		20110225	20110721	Plante Ray[5%]	50%	Draft M for inter require
				<i>Gregory Dubois-Felsmann</i>		
<i>Update App and MW Reference Design for DC3a, DC3b PT1, PT1.1</i>						
Develop Performance Budgets, Timing/Sequence? Diagrams for Alert and Data Release steady state		20101014	20110616	Dubois-Felsmann Gregory[50%],Lim KT[75%]	50%	Diagram and qua models <i>be review</i>
Update reference design - structure model traceability		20110617	20110621	Dubois-Felsmann Gregory[50%],Kantor Jeff[25%],Allsman Robyn[50%],Lim KT[25%],Plante Ray[25%]	0%	
Update Applications UML, documentation		20110617	20110621	Allsman Robyn[25%],Axelrod Tim[25%],Shaw Dick[25%],Lim KT[25%],Becker Andy[25%],Bickerton Steve[25%],Bosch Jim[25%],Krughoff Simon[25%],Lupton Robert[25%],Owen Russell[25%],	0%	
Develop Apps sheet of DM Roadmap		20101125	20110609	Axelrod Tim[10%],Allsman Robyn[10%]	75%	App Sta develop function from Ap parallel update.
<i>Update Infrastructure Reference Design</i>	XX			<i>Mike Freemon</i>		26 infrastru docume for PDF establis identific

						item is t Docume cost she in-progr
Update Mountain/Base? Network Design	XX	20101022	20110608	Lambert Ron[20%]	50%	
Update Long-Haul Network Acquisition Plans		20101022	20110606	Lambert Ron[5%],Kantor Jeff[5%]	25%	
Update Infrastructure Power, Cooling, Floor Space	XX	20110606	20110615	Lambert Ron[10%],Freemon Mike[10%]	0%	
Update Infrastructure Trends Document with our position (e.g. SSD, GPU, Advanced Processor Architecture, Virtual Shared Memory)	XX	20110616	20110713	Freemon Mike[20%],Dubois-Felsmann Gregory[20%],Lim KT[20%]	0%	In-progr
Update Computing, Storage Reference Design Documentation	XX	20110714	20110810	Freemon Mike[20%]	0%	
<i>Requirements and Design for Science User Interface</i>				<i>Schuyler Van Dyk</i>		
Integrate into FRS and prepare system requirements change requests to integrate	XX	20110609	20110622	Van Dyk Schuyler[5%],Dubois-Felsmann Gregory[25%],Levine Deborah[5%]	0%	Not don
Create SUI architecture document		20050901	20110628	Van Dyk Schuyler[5%],Dubois-Felsmann Gregory[25%],Levine Deborah[5%]	75%	under re
Create sample use cases, domain model		20110706	20110707	Levine Deborah[50%],Rosenberg Doug [25%]	0%	TBD 7/
Collate existing (best-of-breed) technology options with requirements		20110418	20110622	Van Dyk Schuyler[50%],Dubois-Felsmann Gregory[5%],Levine Deborah[50%]	50%	in progr
Review with SAT, update and re-baseline		20110623	20110706	Van Dyk Schuyler[50%],Dubois-Felsmann Gregory[50%],Levine Deborah[50%]	0%	
Update SUI WBS		20110707	20110711	Van Dyk Schuyler[50%],Kantor Jeff[50%]	0%	
<i>DM Test Plans</i>				<i>Robyn Allsman</i>		
Draft DM Unit Test documents		20100930	20110707	Allsman Robyn[25%]	50%	Updated V&V s include implem respons DC and

						NOT Y APPRO TCT/SA
Draft DM Integration Test documents		20101014	20110714	Allsman Robyn[25%]	50%	Draft is 75% fle
Draft DM System Test documents		20110715	20110719	Allsman Robyn[35%]	0%	
Draft DM Acceptance Test documents	X	20110720	20110726	Allsman Robyn[25%]	0%	
Generate Integration Test Cases from DM Ref Design Use Cases/Activities?		20110519	20110728	Allsman Robyn[50%]	75%	
Create Performance System Test Cases from DM Subsystem Requirements Constraint Blocks		20110728	20110804	Allsman Robyn[50%]	0%	
Generate Functional Acceptance Test Cases from DM Subsystem Requirements		20110804	20110811	Allsman Robyn[50%]	0%	
<i>Update DM Sizing Model</i>	XX			<i>Mike Freemon</i>		In-prog for addi
Update Science workbook and explanation document		20110228	20110606	Dubois-Felsmann Gregory[10%],Axelrod Tim[10%]	50%	Number require in expec reorgan object c
Update Technology Trends workbook and explanation document	XX	20110602	20110608	Freemon Mike[20%]	0%	In-prog for addi
Consolidate and update Computing workbook and explanation document		20110222	20110606	Lim KT[20%]	75%	Workbo internal docume
Consolidate and update I/O and Storage workbook and explanation document		20110222	20110602	Lim KT[10%],Becla Jacek[10%],Axelrod Tim[10%]	80%	Consoli comple mostly note: a has bee original the mod comple is much more de
Update Network workbook and explanation document, integrate into sizing model sheets		20110222	20110603	Lambert Ron[20%],Kantor Jeff[10%]	71%	Update being p phase. I with Ar similar

<i>Complete DM Inputs to Risk Management, System Integration, Commissioning, and Operations Plans</i>				<i>Jeff Kantor</i>	
Update DM parts of LSST System Integration Test Plan	X	20101022	20110615	Allsman Robyn[30%],Freemon Mike[10%],Kantor Jeff[5%]	0%
Contribute DM sections to LSST Commissioning, I&T, and Operations Plans	X	20100416	20110629	Dubois-Felsmann Gregory[20%],Kantor Jeff[10%],Allsman Robyn[20%],Axelrod Tim[20%],Plante Ray[20%],Freemon Mike[20%]]	50%
Contribute DM sections to LSST Risk Management Plan and register	XX	20100416	20110608	Kantor Jeff[10%],Allsman Robyn[20%],Axelrod Tim[20%],Plante Ray[20%],Freemon Mike[20%],Dubois-Felsmann Gregory[20%]	50%
Update/Get? MOUs with resource support/commitment from DM partners: NCSA	XX	20110602	20110629	Kantor Jeff[5%],Freemon Mike[5%]	0%
<i>System Architecture Team</i>				<i>Gregory Dubois-Felsmann</i>	
Routine SAT operations/design reviews		20100409	20110602	Dubois-Felsmann Gregory[0%]	0%
<i>Vacations</i>					
Vacations 1st half June		20110601	20110615	Freemon Mike[50%]	0%
Vacations 2nd half June		20110616	20110630	Axelrod Tim[50%],Allsman Robyn[80%]	0%
Vacations 1st half July		20110701	20110715	Plante Ray[20%]	0%
Vacations 2nd half July		20110718	20110801	Freemon Mike[50%]	0%
Vacations 1st half August		20110802	20110816		0%
Vacations 2nd half August		20110817	20110831		0%
Vacations 1st half September		20110901	20110915		0%
Vacations 2nd half September		20110916	20110930		0%
<i>PDR material preparation</i>				<i>Jeff Kantor</i>	
Ensure all documents in docushare updated	XX	20110728	20110802	Kantor Jeff[25%],Axelrod Tim[25%],Plante Ray[25%],Freemon Mike[25%],Dubois-Felsmann Gregory[25%],Allsman Robyn[25%],Becla Jacek[25%],Lim KT[25%]	0%
Update PMCS II DM FDP project		20110728	20110803	Kantor Jeff[5%],Claver Chuck[5%],Jacoby Suzanne[5%],Krabbendam	0%

				Victor[5%],Kurita Nadine[5%]	
Create PDR presentations	XX	20110728	20110802	Kantor Jeff[25%],Axelrod Tim[25%],Plante Ray[25%],Freemon Mike[25%],Dubois-Felsmann Gregory[25%],Allsman Robyn[25%],Becla Jacek[25%],Lim KT[25%],Van Dyk Schuyler[25%]	0%
Conduct Director's Review	XX	20110719	20110721	Kantor Jeff[25%],Axelrod Tim[25%],Plante Ray[25%],Freemon Mike[25%],Dubois-Felsmann Gregory[25%],Allsman Robyn[25%],Becla Jacek[25%],Lim KT[25%],Van Dyk Schuyler[25%]	0%
Update DM Presentations	XX	20110728	20110818	Kantor Jeff[25%],Axelrod Tim[25%],Plante Ray[25%],Freemon Mike[25%],Dubois-Felsmann Gregory[25%],Allsman Robyn[25%],Becla Jacek[25%],Lim KT[25%]	0%
Dry Run DM Presentations	XX	20110819	20110825	Kantor Jeff[25%],Axelrod Tim[25%],Plante Ray[25%],Freemon Mike[25%],Dubois-Felsmann Gregory[25%],Allsman Robyn[25%],Becla Jacek[25%],Lim KT[25%],Van Dyk Schuyler[25%]	0%
Conduct PDR	XX	20110826	20110901	Kantor Jeff[80%],Axelrod Tim[80%],Van Dyk Schuyler[80%],Plante Ray[80%],Freemon Mike[80%],Dubois-Felsmann Gregory[80%],Allsman Robyn[80%],Becla Jacek[80%],Lim KT[80%]	0%

## Other Activity