

Previous month PT1.2 - Mgt/SE

Current month PT1.2

Next month: Mgt/SE Status reporting will be done via trac tickets for Winter12 release and via PMCS for MSE

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>				<i>Jacek Becla</i>		
Scalability tests phase III (up to 250 nodes)		20110303	20110607	Becla Jacek[10%], Wang Daniel[75%], Dubois-Felsmann Gregory[5%]	100%	
SSD Database Tests		20100802	20110603	Becla Jacek	100%*	
Improve trac db documentation for PDR		20090902	20110613	Becla Jacek[10%]	100%*	
Write design document for PDR		20110614	20110711	Becla Jacek[5%], Lim KT[5%], Hanushevsky Andy[20%]	100%*	
<i>Pipeline Execution Middleware Scaling Tests</i>				<i>KT Lim, Ray Plante</i>		
Define scaling tests		20110222	20110606	Plante Ray[5%]	50%	
Create benchmark stage implementations and pipeline configurations		20110606	20110627	Dauers Greg[25%]	0%	
Execute scaling tests, analyze, report results		20110627	20110718	Dauers Greg[25%]	0%	
<i>Pipeline Execution Monitoring Visualization Tool</i>				<i>Ray Plante</i>		
Design/acquire/review pipeline processing visualization tool		20110301	20110617	Plante Ray[5%], Pietrowicz Steve[25%]	100%*	
Implement pipeline processing visualization tool		20110322	20110628	Pietrowicz Steve[75%]	100%*	
Demonstrate rescheduling of failed processing		20110222	20110628	Pietrowicz Steve[75%]	100%*	
Create simulated worker failure mechanism		20110301	20110613	Pietrowicz Steve[50%]	100%*	

Enable detection of failure and mapping to job
Enable rescheduling of failed job
<i>MOPS Analyses</i>
Complete analysis of runs of FindTracklets/LinkTracklets and OrbFit driven by simulated DIASources
Estimate amount of CPU required for LSST MOPS
Prototype key algorithms in MOPS design
Determine requirements for FutureMOPS that will satisfy solar system science requirements as sketched out in SRD
Write up results for PDR
<i>Complete DM content in LSR and OSS</i>
Update star and galaxy counts
Extract values for Data Quality Requirements
Capture network requirements in SysML model
Capture cyber-security requirements in SysML model
Support establishment of traceability between LSR and OSS
Establish bounding requirements in SysML for MOPS
<i>Revise DM-FRS</i>
Flow down OSS requirements to FRS (aka DMSR) and revise FRS accordingly
Restate existing quantitative requirements as constraint blocks

20110315	20110617	Pietrowicz Steve[75%]	100%*
20110322	20110628	Pietrowicz Steve[75%]	100%*
		<i>Tim Axelrod</i>	
20081010	20110613	Axelrod Tim[20%],Myers Jonathan[75%]	75%
20101108	20110615	Axelrod Tim[20%],Myers Jonathan[75%]	75%
20101206	20110706	Axelrod Tim[20%],Myers Jonathan[75%]	50%
20110117	20110713	Axelrod Tim[20%],Myers Jonathan[75%]	50%
20110714	20110727	Axelrod Tim[20%],Myers Jonathan[75%]	100%*
		<i>Gregory Dubois-Felsmann</i>	
20100908	20110606	Dubois-Felsmann Gregory[5%]	100%*
20101020	20110606	Dubois-Felsmann Gregory[5%]	100%*
20110602	20110602	Dubois-Felsmann Gregory[5%]	100%*
20110603	20110609	Dubois-Felsmann Gregory[5%]	100%*
20100901	20110630	Dubois-Felsmann Gregory[15%]	100%*
20101206	20110622	Dubois-Felsmann Gregory[5%]	100%*
		<i>Gregory Dubois-Felsmann</i>	
20110602	20110608	Dubois-Felsmann Gregory[50%]	100%*
20110418	20110609	Dubois-Felsmann Gregory[50%]	100%*
20110630	20110711	Dubois-Felsmann Gregory[50%]	100%*

Establish traceability of FRS to OSS (or elsewhere)
Review traceability with Tim and Chuck, clean up
<i>Update Structure Model</i>
Update Structure Model to match revised WBS
Create DM internal ICD N2 diagram
Update Structure Model - FRS traceability
<i>Prepare ICDs</i>
DM-CCS
DM-TCS
DM-OCS
DM-EPO
DM-sites
DM - VAO Draft MOU
<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
Update reference design - structure model traceability
Update Applications UML, documentation

20110711	20110714	Dubois-Felsmann Gregory[50%],Axelrod Tim[50%]	100%*
		<i>Gregory Dubois-Felsmann</i>	
20110418	20110602	Dubois-Felsmann Gregory[50%]	100%*
20110603	20110603	Dubois-Felsmann Gregory[50%]	0%
20110711	20110713	Dubois-Felsmann Gregory[50%]	0%
		<i>Gregory Dubois-Felsmann</i>	
20110103	20110627	Dubois-Felsmann Gregory[25%],Marshall Stuart[25%]	50%*
20110309	20110630	Sebag Jacques[50%],Dubois-Felsmann Gregory[50%]	50%*
20110317	20110708	Dubois-Felsmann Gregory[50%],Schumacher German[50%]	50%*
20110602	20110616	Jacoby Suzanne[50%],Dubois-Felsmann Gregory[20%]	50%*
20110516	20110621	Dubois-Felsmann Gregory[50%],Lambert Ron[50%],Barr Jeff[50%]	50%*
20110225	20110721	Plante Ray[5%]	100%*
		<i>Gregory Dubois-Felsmann</i>	
20101014	20110616	Dubois-Felsmann Gregory[50%],Lim KT[75%]	100%*
20110617	20110621	Dubois-Felsmann Gregory[50%],Kantor Jeff[25%],Allsman Robyn[50%],Lim KT[25%],Plante Ray[25%]	0%
20110617	20110621	Allsman Robyn[25%],Axelrod Tim[25%],Shaw Dick[25%],Lim KT[25%],Becker Andy[25%],Bickerton Steve[25%],Bosch Jim[25%],Krughoff	100%*

Develop Apps sheet of DM Roadmap
<i>Update Infrastructure Reference Design</i>
Update Mountain/Base? Network Design
Update Long-Haul Network Acquisition Plans
Update Infrastructure Power, Cooling, Floor Space
Update Infrastructure Trends Document with our position (e.g. SSD, GPU, Advanced Processor Architecture, Virtual Shared Memory)
Update Computing, Storage Reference Design Documentation
<i>Requirements and Design for Science User Interface</i>
Integrate into FRS and prepare system requirements change requests to integrate
Create SUI architecture document
Create sample use cases, domain model
Collate existing (best-of-breed) technology options with requirements
Review with SAT, update and re-baseline
Update SUI WBS
<i>DM Test Plans</i>
Draft DM Unit Test documents

		Simon[25%],Lupton Robert[25%],Owen Russell[25%],	
20101125	20110609	Axelrod Tim[10%],Allsman Robyn[10%]	100%*
		<i>Mike Freemon</i>	
20101022	20110608	Lambert Ron[20%]	100%*
20101022	20110606	Lambert Ron[5%],Kantor Jeff[5%]	100%*
20110606	20110615	Lambert Ron[10%],Freemon Mike[10%]	100%*
20110616	20110713	Freemon Mike[20%],Dubois-Felsmann Gregory[20%],Lim KT[20%]	100%*
20110714	20110810	Freemon Mike[20%]	100%*
		<i>Schuyler Van Dyk</i>	
20110609	20110622	Van Dyk Schuyler[5%],Dubois-Felsmann Gregory[25%],Levine Deborah[5%]	0%
20050901	20110628	Van Dyk Schuyler[5%],Dubois-Felsmann Gregory[25%],Levine Deborah[5%]	100%*
20110706	20110707	Levine Deborah[50%],Rosenberg Doug [25%]	25%*
20110418	20110622	Van Dyk Schuyler[50%],Dubois-Felsmann Gregory[5%],Levine Deborah[50%]	50%*
20110623	20110706	Van Dyk Schuyler[50%],Dubois-Felsmann Gregory[50%],Levine Deborah[50%]	0%
20110707	20110711	Van Dyk Schuyler[50%],Kantor Jeff[50%]	100%*
		<i>Robyn Allsman</i>	
20100930	20110707	Allsman Robyn[25%]	50%
20101014	20110714	Allsman Robyn[25%]	50%

Draft DM Integration Test documents
Draft DM System Test documents
Draft DM Acceptance Test documents
Generate Integration Test Cases from DM Ref Design Use Cases/Activities?
Create Performance System Test Cases from DM Subsystem Requirements Constraint Blocks
Generate Functional Acceptance Test Cases from DM Subsystem Requirements
<i>Update DM Sizing Model</i>
Update Science workbook and explanation document
Update Technology Trends workbook and explanation document
Consolidate and update Computing workbook and explanation document
Consolidate and update I/O and Storage workbook and explanation document
Update Network workbook and explanation document, integrate into sizing model sheets
<i>Complete DM Inputs to Risk Management, System Integration, Commissioning, and Operations Plans</i>
Update DM parts of LSST System Integration Test Plan
Contribute DM sections to LSST Commissioning, I&T, and Operations Plans

20110715	20110719	Allsman Robyn[35%]	0%
20110720	20110726	Allsman Robyn[25%]	0%
20110519	20110728	Allsman Robyn[50%]	75%
20110728	20110804	Allsman Robyn[50%]	0%
20110804	20110811	Allsman Robyn[50%]	0%
		<i>Mike Freemon</i>	
20110228	20110606	Dubois-Felsmann Gregory[10%],Axelrod Tim[10%]	100%*
20110602	20110608	Freemon Mike[20%]	100%*
20110222	20110606	Lim KT[20%]	100%*
20110222	20110602	Lim KT[10%],Becla Jacek[10%],Axelrod Tim[10%]	100%*
20110222	20110603	Lambert Ron[20%],Kantor Jeff[10%]	100%*
		<i>Jeff Kantor</i>	
20101022	20110615	Allsman Robyn[30%],Freemon Mike[10%],Kantor Jeff[5%]	100%*
20100416	20110629	Dubois-Felsmann Gregory[20%],Kantor Jeff[10%],Allsman Robyn[20%],Axelrod Tim[20%],Plante Ray[20%],Freemon Mike[20%]	100%*
20100416	20110608		100%*

Contribute DM sections to LSST Risk Management Plan and register
Update/Get? MOUs with resource support/commitment from DM partners: NCSA
<i>System Architecture Team</i>
Routine SAT operations/design reviews
<i>PDR material preparation</i>
Ensure all documents in docushare updated
Update PMCS II DM FDP project
Create PDR presentations
Conduct Director's Review
Update DM Presentations

		Kantor Jeff[10%],Allsman Robyn[20%],Axelrod Tim[20%],Plante Ray[20%],Freemon Mike[20%],Dubois-Felsmann Gregory[20%]	
20110602	20110629	Kantor Jeff[5%],Freemon Mike[5%]	100%*
		<i>Gregory Dubois-Felsmann</i>	
20100409	20110602	Dubois-Felsmann Gregory[0%]	100%*
		<i>Jeff Kantor</i>	
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%]	100%*
20110728	20110803	Kantor Jeff[5%],Claver Chuck[5%],Jacoby Suzanne[5%],Krabbendam Victor[5%],Kurita Nadine[5%]	0%
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%]	100%*
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%]	100%*
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%]	100%*

Dry Run DM Presentations
Conduct PDR

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%]	100%*
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%]	100%*

Other Activity