

DM R&D Plan 20080609

ID	Resource Name	Details	Q3 '10			Q4 '10			Q1 '11			Q2 '11	
			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
	Unassigned	Work											
1	<b>Kantor Jeff</b>	Work	30.23h	42.1h	31.9h	17.6h	35.6h	101.2h	65.6h	40.4h	44h	3.2h	16h
	Create draft DM system and subsystem functional requirements in	Work											
	Create draft DM - Camera SDS ICD	Work											
	Create DM - OCS E&F Database interace concepts	Work											
	Update DMS Reference Design UML Model	Work											
	Update DM UML Apps and Middleware Cost Estimates, input all es	Work											
	Create draft DM SW Development Plan	Work											
	Create draft DM Integration and Test Plan	Work											
	Create review presentations and Conduct DM Internal Review	Work											
	Create review presentations and participate in LSST PMO Internal	Work											
	Update DM Risk Register	Work											
	Create DM Final Design Phase Project Plan in PMCS	Work											
	Create Data Challenges Overview and Tie to Risk Mitigations	Work											
	Create Review Presentation	Work											
	Dry Run Presentation and Address Review Actions	Work											
	Conduct Review	Work											
	Update DM organization	Work											
	Incorporate DM Plans, Schedules, Cost Estimates into pmcs-lite, tr	Work											
	Publish cost book, do team review	Work											
	Update DM UML Apps and Middleware Cost Estimates	Work											
	Conduct PM Internal Cost Review and updates	Work											
	Determine #, type of P6 licenses and order as needed	Work											
	Establish list of top level phases, projects, modify EPS (FDP, CON	Work											
	Establish plan for capturing escalation, contracts, expenses in P6	Work											
	Create excel sheet with escalated labor, non-labor, contract, indirec	Work											
	Exercise escalated resources/rates import via SDK	Work	2h										
	Create UDF and global change to calculate base year \$ across pla	Work	4h										
	Update PMCS documentation	Work	4h										
	Update LSSTC WBS	Work											
	Migrate DM Plan	Work											
	Migrate T&S plan	Work											
	Migrate PMO, SE, COMM, EPO plans	Work											
	Move Activity BOE Notebooks to WBS Notebooks	Work											
	Create what if projects	Work											
	Create overall LSST milestones project	Work											
	Create FDP skeleton projects	Work											
	Develop DM FDP project	Work											
	Establish plan for SLAC/LSSTC primavera data interfaces	Work											
	SLAC LSST WBS Map	Work											
	PMCS2 Import requirements	Work						12h					
	Develop implementation plan for Earned Value Management	Work	4h	4h									
	Update overall LSST milestones project to FY13 start	Work		4h									
	Update FDP projects	Work		5.6h	6.4h								
	Update MREFC projects	Work			4.8h	17.6h	9.6h						
	Implement EV Phase I system (Primavera only)	Work						8h	17.6h				
	Group activities in Final Design Phase plans into work packages	Work						4h					
	Assign EV weights to activities	Work							4h				
	Extract Telescope and DM actuals information from CAS using CA	Work							4h				
	Use Primavera reports, layouts to expose EV	Work							4h				
	Analyze Phase 1 results, update implementation plan	Work						5.6h					
	Develop SLAC LSST Primavera export/import process and test	Work							16.8h	7.2h			
	Evaluate Deltek Cobra and Ecosys Financial Manager capabilities,	Work							4h				
	Install one or both of Cobra and Ecosys FM on limited trial basis	Work							4h				

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		Configure Cobra/Ecosys FM with Work Packages, etc.								4h			
		Operate trial system(s) for 1 month								4.8h	11.2h		
		Down-select between Cobra and Ecosys									2h		
		Analyze Phase 2 results, update implementation plan									12h	8h	
		Update UML-based Application, Middleware Estimates							40h				
		Update Application, Middleware Cost Estimate and BOE							16h	24h			
		Update EA and UML Modeling Conventions Document for Activity I											
		Create document templates, recipes, tools for Enterprise Architect	3.43h										
		Copy use cases from LSST_SE to LSST_SysArch		2h									
		Update reference design from DC3a and DC3b/PT1 model		20.5h	19.5h								
		Update design							6h				
		Update Long-Haul Network Acquisition Plans							2h				
		Develop Performance Budgets, Timing/Sequence Diagrams for Ale								8h			
		Update DM parts of LSST System Integration Test Plan							2h	2h			
		Contribute DM sections to LSST Risk Management, Commissioning	12.8h	3.2h									
		Get letters of resource support/commitment from DM partners		2.8h	1.2h								
		Ensure all documents in docushare updated									8h		
		Conduct Preliminary Design Review										32h	
		Configure Cobra or Ecosys for LSST (Jeff, Daniel, Iain)										4h	
		Operate for several monthly periods to validate interfaces, process											3.2h
		Operate across fiscal year boundary and adjust for final implement											16h
		Operate NSF EV and DOE EV systems in parallel (LSST, SLAC)											
2	Krabbendam Victor	Work		5.6h	11.2h	17.6h	13.6h	4h	4.8h	13.2h		3.2h	16h
3	Axelrod Tim	Work	25.6h	47.4h	39h			36h	72h	8h	32h		
		Create draft DM system and subsystem functional requirements in											
		Create draft DM - Camera SDS ICD											
		Create DM - OCS E&F Database interace concepts											
		Create draft DM - VO, EPO interface concepts											
		Update DMS Sizing Model											
		Update DMS Reference Design UML Model											
		Create review presentations and Conduct DM Internal Review											
		Update DM Risk Register											
		Create Data Challenges Overview and Tie to Risk Mitigations											
		Create Review Presentation											
		Dry Run Presentation and Address Review Actions											
		Conduct Review											
		Update DM organization											
		Publish cost book, do team review											
		Update DM Sizing Models - Storage/Access, Compute											
		Update DM UML Apps and Middleware Cost Estimates											
		Conduct PM Internal Cost Review and updates											
		Update LSSTC WBS											
		Develop DM FDP project											
		Extract and test DC3B components for MOPHOT						28h	32h				
		Add crosstalk correction to MOPHOT pipeline							20h				
		Run the 4m data, analyze, report results							20h				
		Update reference design from DC3a and DC3b/PT1 model		41h	39h								
		Update design						8h					
		Contribute DM sections to LSST Risk Management, Commissioning	25.6h	6.4h									
		Ensure all documents in docushare updated									8h		
		Conduct Preliminary Design Review										32h	
4	Allsman Robyn	Work	28.6h	47.4h	47h	44h	48.4h	72h	84h	44h	32h		
		LSST Software Development Plan											
		LSST Software Quality Assurance Guidelines											

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			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
		LSST Verification and Validation Guidelines	Work										
		LSST Configuration Management Guidelines	Work										
		Create draft DM SW Development Plan	Work										
		Create draft DM Integration and Test Plan	Work										
		Create review presentations and Conduct DM Internal Review	Work										
		Create Data Challenges Overview and Tie to Risk Mitigations	Work										
		Publish cost book, do team review	Work										
		Conduct PM Internal Cost Review and updates	Work										
		Update LSSTC WBS	Work										
		Develop DM FDP project	Work										
		LSST Software Development Plan	Work										
		LSST Configuration Management Guidelines	Work										
		LSST Software Quality Assurance Guidelines	Work										
		LSST Verification and Validation Guidelines	Work										
		DM Software Development Plan	Work										
		DM Software Quality Assurance Guidelines	Work										
		DM Configuration Management Guidelines	Work										
		DM Verification and Validation Guidelines	Work										
		Update EA and UML Modeling Conventions Document for Activity I	Work										
		Create document templates, recipes, tools for Enterprise Architect	Work	3h									
		Update reference design from DC3a and DC3b/PT1 model	Work		41h	39h							
		Update design	Work						12h				
		Update traceability	Work						8h				
		Draft DM Unit Test documents	Work			8h	32h						
		Draft DM Integration Test documents	Work				12h	28h					
		Draft DM System Test documents	Work					8.4h					
		Draft DM Acceptance Test documents	Work						20h				
		Generate Integration Test Cases from DM Ref Design Use Cases/A	Work						20h	20h			
		Create Performance System Test Cases from DM Subsystem Requ	Work							40h			
		Generate Functional Acceptance Test Cases from DM Subsystem	Work							24h	16h		
		Update all plans with PT2 design results	Work								20h		
		Update DM parts of LSST System Integration Test Plan	Work					12h	12h				
		Contribute DM sections to LSST Risk Management, Commissioning	Work	25.6h	6.4h								
		Ensure all documents in docushare updated	Work								8h		
		Conduct Preliminary Design Review	Work									32h	
5	Cutri Roc		Work										
6	Dodd Suzanne		Work	25.6h	9.2h	1.2h		4h	4h		8h	32h	
		Create DM Final Design Phase Project Plan in PMCS	Work										
		Update DM organization	Work										
		Incorporate DM Plans, Schedules, Cost Estimates into pmcs-lite, tr	Work										
		Update DM UML Apps and Middleware Cost Estimates	Work										
		Develop DM FDP project	Work										
		Update DM parts of LSST System Integration Test Plan	Work					4h	4h				
		Contribute DM sections to LSST Risk Management, Commissioning	Work	25.6h	6.4h								
		Get letters of resource support/commitment from DM partners	Work		2.8h	1.2h							
		Ensure all documents in docushare updated	Work								8h		
		Conduct Preliminary Design Review	Work									32h	
7	Plante Ray		Work	25.6h	47.4h	39h			20h		8h	32h	
		Create draft DM - VO, EPO interface concepts	Work										
		Update Infrastructure Reference Design and Cost Estimates for tec	Work										
		Update DMS Reference Design UML Model	Work										
		Create review presentations and Conduct DM Internal Review	Work										
		Create Data Challenges Overview and Tie to Risk Mitigations	Work										

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			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
		Update DM organization	Work										
		Publish cost book, do team review	Work										
		Update DM Sizing Models - Storage/Access, Compute	Work										
		Update Infrastructure Reference Design and Cost Estimates for no	Work										
		Update reference design from DC3a and DC3b/PT1 model	Work		41h	39h							
		Update design	Work						12h				
		Compare DM app framework and middleware to ALMA, other proje	Work					8h					
		Contribute DM sections to LSST Risk Management, Commissionin	Work	25.6h	6.4h								
		Ensure all documents in docushare updated	Work							8h			
		Conduct Preliminary Design Review	Work								32h		
8	Beldica Cristina		Work										
9	Cribbs Chris		Work										
10	Lambert Ron		Work	2h					50h				
		Create draft DM - Camera SDS ICD	Work										
		Create updated Mountain/Base Network Design	Work										
		Create draft Long-Haul Network Acquisition Plans	Work										
		Create draft Cyber-security Plan	Work										
		Publish cost book, do team review	Work										
		Update DM Sizing Models - Storage/Access, Compute	Work										
		Update Mountain/Base Network Design	Work						8h				
		Update Long-Haul Network Acquisition Plans	Work						2h				
		Update Infrastructure Power, Cooling, Floor Space	Work						40h				
		Update Cyber-security Plan	Work	2h									
11	Lupton Robert		Work							48h	28h		
		Create draft DM SW Development Plan	Work										
		Evaluate performance of ported algorithm	Work							48h	28h		
12	Ephibian		Work	10h									
13	Dossa Don		Work										
14	Smith Chris		Work										
15	Huntoon Wendy		Work										
16	Baker Bill		Work	20h									
		Create draft Cyber-security Plan	Work										
		Update Cyber-security Plan	Work	20h									
17	Becla Jacek		Work	14.27h	3.37h	156h	4.4h				8h	32h	
		Update DMS Sizing Model	Work										
		Update DMS Reference Design UML Model	Work										
		Create review presentations and Conduct DM Internal Review	Work										
		Update DM Sizing Models - Storage/Access, Compute	Work										
		Improve trac db documentation for PDR	Work	6.4h									
		Interact with sciCollab chairs, refresh list of common queries	Work	3h									
		Research new db technologies - LOE	Work	3.37h	3.37h	0.4h							
		Prepare testbed for scalability tests, incl sim data	Work										
		Run initial scale tests	Work										
		Write design document for PDR	Work	1.5h									
		Update data storage and i/o sizing estimates	Work										
		SSD Database Tests	Work			155.6h	4.4h						
		Ensure all documents in docushare updated	Work							8h			
		Conduct Preliminary Design Review	Work								32h		
18	Lim KT		Work	1.5h	41h	39h	4h		44h	8h	8h	32h	
		Update DMS Reference Design UML Model	Work										
		Create review presentations and Conduct DM Internal Review	Work										
		Research new db technologies - LOE	Work										
		Run initial scale tests	Work										
		Write design document for PDR	Work	1.5h									

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		Update data storage and i/o sizing estimates											
		Update reference design from DC3a and DC3b/PT1 model		41h	39h								
		Reference design of connection to metadata				4h							
		Update design						40h					
		Compare DM app framework and middleware to ALMA, other proje						4h					
		Develop Performance Budgets, Timing/Sequence Diagrams for Ale							8h				
		Ensure all documents in docushare updated								8h			
		Conduct Preliminary Design Review									32h		
19	Dubois-Felsmann Gregory	Work	13.7h	10.2h	28.6h			14h	50h	22h	32h		
		Update DM Risk Register											
		Create Data Challenges Overview and Tie to Risk Mitigations											
		Publish cost book, do team review											
		Update DM Sizing Models - Storage/Access, Compute											
		Conduct PM Internal Cost Review and updates											
		Update LSSTC WBS											
		Develop DM FDP project											
		LSST Software Development Plan											
		LSST Configuration Management Guidelines											
		LSST Software Quality Assurance Guidelines											
		LSST Verification and Validation Guidelines											
		DM Software Development Plan											
		DM Software Quality Assurance Guidelines											
		DM Configuration Management Guidelines											
		DM Verification and Validation Guidelines											
		First-pass reorganization	7.5h										
		Transfer of lower-level content to holding area for FRS revision	0.2h										
		Support establishment of traceability between LSR and OSS	6h										
		Copy remaining content from LSST_SE to LSST_SysArch		2h									
		Update reference design from DC3a and DC3b/PT1 model		8.2h	7.8h								
		Update reference design - structure model traceability			0.8h								
		Update reference design - FRS traceability			16h								
		Create DM internal ICD N2 diagram			4h								
		Develop Performance Budgets, Timing/Sequence Diagrams for Ale							8h				
		Define requirements, integrate into FRS and system requirements						14h	16h				
		Define Level 3 pipeline toolkit							26h	14h			
		Contribute DM sections to LSST Risk Management, Commissioning	0h	0h									
		Ensure all documents in docushare updated								8h			
		Conduct Preliminary Design Review									32h		
20	Bartels Jeff	Work	84h	84h	72h								
21	Goodenow Iain	Work							16.8h	11.2h	4h	3.2h	16h
22	Freemon Mike	Work	25.6h	9.2h	1.2h		4h	56h	136h	28h	32h		
		Update DM organization											
		Incorporate DM Plans, Schedules, Cost Estimates into pmcs-lite, tr											
		Update DM UML Apps and Middleware Cost Estimates											
		Update Infrastructure Reference Design and Cost Estimates for no											
		Update Infrastructure Cost Estimate and BOE							20h	20h			
		Update Infrastructure Power, Cooling, Floor Space						40h					
		Infrastructure Position Papers (e.g. SSD, GPU, Hybrid Processors,						12h	68h				
		Develop Performance Budgets, Timing/Sequence Diagrams for Ale							8h				
		Update Computing, Storage Reference Design Documentation							40h				
		Update DM parts of LSST System Integration Test Plan						4h	4h				
		Contribute DM sections to LSST Risk Management, Commissioning	25.6h	6.4h									
		Get letters of resource support/commitment from DM partners		2.8h	1.2h								
		Ensure all documents in docushare updated								8h			

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			Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
	<i>Conduct Preliminary Design Review</i>	Work										32h		
23	Claver Chuck	Work	10.93h	5.6h	11.2h	17.6h	13.6h	4h						
24	Frey Thomas	Work												
25	Sweeney Don	Work									2h			
26	Hanushevsky Andy	Work	6h											
27	Calabrese Daniel	Work			4.8h	17.6h	29.6h	13.6h	4.8h	13.2h	10.4h	16.8h	16h	
28	Chaffin Julia	Work							16.8h	7.2h				
29	Gehrig David	Work												
30	Daes Greg	Work						8h						
31	Kurita Nadine	Work		5.6h	11.2h	17.6h	13.6h	4h	16.8h	9.2h				
32	TBD	Work							96h	56h				
33	Van Dyk Schuyler	Work						14h	16h			32h		
	<i>Define requirements, integrate into FRS and system requirements</i>	Work						14h	16h					
	<i>Conduct Preliminary Design Review</i>	Work										32h		
34	<b>Jacoby Suzanne</b>	Work		5.6h	23.2h	17.6h	13.6h	4h						
35	Marshall Stuart	Work				54h	12h							
36	<b>Barr Jeff</b>	Work					32h							
37	<b>Sebag Jacques</b>	Work					16h							
38	Fillmore Jeffrey	Work					12h	13.6h	20.8h	7.2h				
39	Jeff Barr	Work						40h						