

PDS 2010 Wrap Up Discussion

November 20, 2008



System Engineering Plan





PDS 2010 Schedule (from July)

	Start Date	Entre Date	2007		20	08		2009					
Activity Name		Finish Date	Fourth	First	Second	Third	Fourth	First	Second	Third	Fourth		
Concept/Study Phase	8/20/07	7/18/08	-				-	1			1		
Project Planning	1/7/08	7/9/08		-	-								
PDS 2010 Architecture	6/2/08	12/18/08				-			1				
Finalize PDS 2010 Level 1,2,3 Requirements	6/2/08	11/25/08											
Preliminary PDS 2010 Data Architecture & Information Model	7/10/08	11/7/08				-	-						
Form Design Team	7/10/08	7/10/08			1 1	1							
Draft Information Model Specification	7/11/08	9/18/08				-							
Prototype Node Examples in PDS 2010	9/1/08	11/7/08									-		
Preliminary PDS 2010 System Architecture Specification	7/10/08	11/7/08				-	-						
Form Design Team	7/10/08	7/10/08			1	1		î.		1			
System Definition and Decomposition	7/11/08	9/4/08								1			
Service Definitions and Service Model	9/5/08	11/7/08			1	T		1		1			
PDS 2010 Tech Session	9/24/08	9/25/08						1		1			
MC Summary Presentation (Fall MC)	11/6/08	11/6/08					M	1					
Finalize High Level Architecture	11/7/08	12/18/08						1		1			
P1. PDS 2010 Data Standards Project	7/10/08	5/27/10				-		-					
P2. Distributed Infrastructure Project	11/7/08	2/18/11					-	-	-	-	-		
P3. PDS 2010 Tools Project	11/13/09	9/23/11									-		
P4. Distributed Catalog System Project	9/30/09	5/31/11					1				-		
P5. Portals, Search and Distribution	6/14/10	10/14/11											
P6. Data Movement and Delivery Project	9/1/08	8/11/11					-	-	3	-			
			Fourth	First	Second	Third	Fourth	First	Second	Third	Fourth		



Current Schedule

Activity Name	Duration (Work Star Days)	Caral Data	Finish Date	2007	2008			2009				2010				2011				
		Start Date		Fourth	First	Second	Third	Fourth												
Concept/Study Phase	240.00	8/20/07	7/18/08																	
Project Planning	133.00	1/7/08	7/9/08		-		•													
PDS 2010 Architecture/System Engineering	254.00	7/10/08	6/30/09				-			· · ·										
Level 1,2,3 Requirements Changes	127.00	1/5/09	6/30/09																	
Preliminary PDS 2010 Data Architecture & Information Model	87.00	7/10/08	11/7/08																	
Form Architecture Team	1.00	7/10/08	7/10/08				L													
Draft Information Model Specification	50.00	7/11/08	9/18/08																	
Prototype Node Examples in PDS 2010	50.00	9/1/08	11/7/08																	
Preliminary PDS 2010 System Architecture Specification	87.00	7/10/08	11/7/08				-													
Form Architecture Team	1.00	7/10/08	7/10/08																	
System Definition and Decomposition	40.00	7/11/08	9/4/08				*													
Service Definitions and Service Model	46.00	9/5/08	11/7/08				1													
PDS 2010 Tech Session (Architecture Development)	2.00	9/24/08	9/25/08				-													
MC Summary Presentation (Fall MC)	1.00	11/20/08	11/20/08																	
Finalize High Level Architecture	30.00	11/21/08	1/1/09																	
PDS 2010 Tech Session (Services and Data Design)	1.00	5/11/09	5/11/09							•										
P1. PDS 2010 Data Standards Project	406.00	1/2/09	7/23/10																	
P2. Distributed Infrastructure Project	586.00	11/21/08	2/18/11														-			
P3. PDS 2010 Tools Project	445.00	1/11/10	9/23/11										-							•
P4. Distributed Catalog System Project	435.00	9/30/09	5/31/11								-	-						-		
P5. Portals, Search and Distribution Project	350.00	6/14/10	10/14/11																	•
P6. Data Movement and Delivery Project	661.00	1/29/09	8/11/11						-										-	
				Fourth	First	Second	Third	Fourth												



Summary

- Key Architecture Recommendations
 - Data Architecture
 - High level architecture is defined and understood
 - Discussion and planning has moved towards design tradeoffs and implementation
 - System Architecture
 - High level architecture is defined as a services-based architecture
 - Begin services planning and design
- Fundamental Questions
 - MC answers to priorities and trade offs will be important to moving forward with the PDS 2010 projects



Project Next Steps

- Finalize architecture work and dissolve teams (December 2008)
- Form design teams for (January 2009)
 - Data standards and architecture implementation
 - In general, it is critical that this be in front of the software projects (with the exception of planning the services implementation)
 - Distributed services implementation
- Derive designs which include
 - Mapping of level 1/2/3 requirements to design
 - Derived level 4 requirements, where necessary
 - Implementation planning
 - Strawman designs
- Present update/strawman designs at next MC (April 2009)
 - Identify and gaps, questions
 - Identify policies and discussion deployment/provisioning
- Convene tech session in spring to discuss design proposals
 - Detailed discussion and engagement across PDS



Support/Resources

- In March MC, we projected that each node request 0.5 FTE overguide to support PDS 2010 in FY10/FY11, where needed
- EN re-worked its FY09+ POP to re-program its development and system engineering plans to support PDS 2010 based on the schedule presented
- Our plan is to assume current level of funding + FY10 and FY11 overguide



Requests for the MC

- Respond to fundamental questions
- Input on design trade off/approach for data model
- Review and confirmation of proposed next steps
- Any suggestions/comments
- Support for Tech Staff to be involved in PDS 2010 development