

PDS 2010 System Design Report

MC Face-to-Face Washington, DC

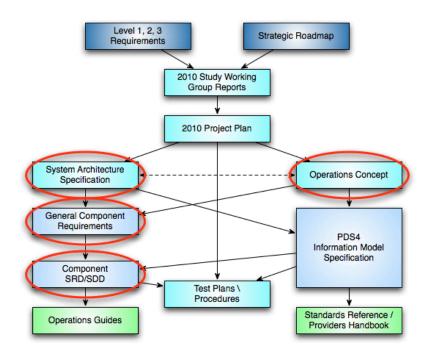
March 25-26, 2010

Topics

- Project Documentation
- Requirements/Design
- Implementation/Integration
- System Review
- Schedule

Project Documentation

- Updated the Sys
 Arch Spec based on recent design work
- Initial draft of the Ops Concept
- Initiated the Component Reqs
- Working on SRD/ SDD for each component effort



Requirements/Design

- Actively working on identifying requirements (level 4 and 5) and preparing designs for the core components of the system.
- Early drafts of the requirements and design documents are reviewed by the System Design Working Group (SDWG).
- Comments and suggestions are captured and incorporated into following versions of the documents.

Requirements/Design Current Efforts

- Security Service
 - Initial draft reviewed by the SDWG in November 2009.
 - Comments and suggestions incorporated in follow-on drafts.
 - Revisited the data model in March 2010.
- Registry Service
 - Initial draft reviewed by the SDWG in January 2010.
 - Comments incorporated into the recent draft.
- Harvest Tool
 - Initial draft reviewed by the SDWG in February 2010.
 - Comments incorporated into the recent draft.
- Report Service
 - Initial draft reviewed by the SDWG in March 2010.

Requirements/Design Upcoming Efforts

- Iterate through follow-on reviews of the core components focusing on specific topics (e.g., interfaces, data model, etc.).
- Preparation Tools
 - Initiate capture of tool requirements (design, generation, validation and transformation).
 - Expand documentation on using off-the-shelf tools for specific schema design.
- Search Service
 - Although not intended for Phase I deployment, we want to get this important service underway.
 - In line with review board suggestion from yesterday.
 - Have the SDWG review the initial draft of the requirements/design document in April 2010.

Implementation/Integration

- Focusing on prototyping efforts and evaluation of off-the-shelf solutions (Open Source and COTS) where appropriate.
- As the requirements and design firm up for the core components, implementation and integration efforts are initiated.

Implementation/Integration Current Efforts

Security Service

- Working on the deployment and integration of an Open Source solution (OpenSSO from Sun).
- Actively working on integration of the Security and Registry services.

Registry Service

- This effort is using the CCSDS Registry and Repository Reference Model as a guideline.
- Initiated development of the REST-based interface.

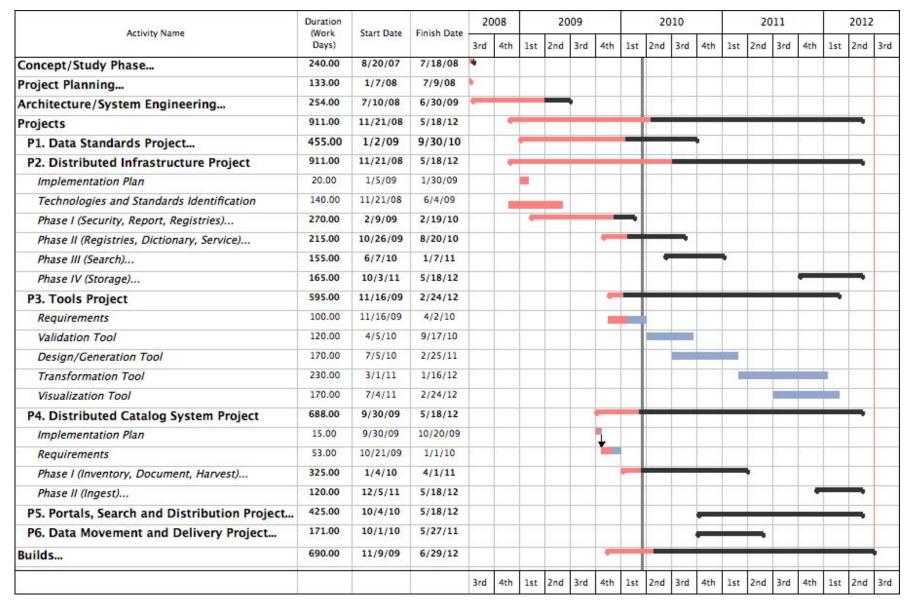
Implementation/Integration Upcoming Efforts

- Continue efforts on the Security and Registry services.
- Harvest Tool
 - Initiate investigation of existing code bases for utilization in development.
- Report Service
 - Initiate evaluation of Commercial Off-The-Shelf (COTS) software packages.
- Preparation Tools
 - Initiate prototyping for a Validation tool.

System Review

- Preparation for this effort was derived from the previously described activities.
- Areas of focus for the review:
 - System Implementation Plan
 - Detailed the approach and plans for development of the system software.
 - System Architecture
 - Detailed the provisioning of components and their interactions along with architectural decisions.
 - Service Design
 - Focused on the current efforts for the core components.
 - Tool Design
 - · Identified the planned tools and their general capabilities.

Schedule



Questions/Comments