

A horizontal banner image featuring a sequence of celestial bodies from left to right: a blue planet (Earth), a brown planet (Mars), a brown planet (Jupiter), and a brown planet (Saturn). The text "Planetary Data System" is overlaid in white on the right side of the banner.

Planetary Data System

System Integration

Technical Session

Pasadena, CA

February 28 – March 2, 2011

Sean Hardman / Emily Law

Topics

- Overview
- Component Provisioning
- Build Phasing and Deployment
- PDS3 Support

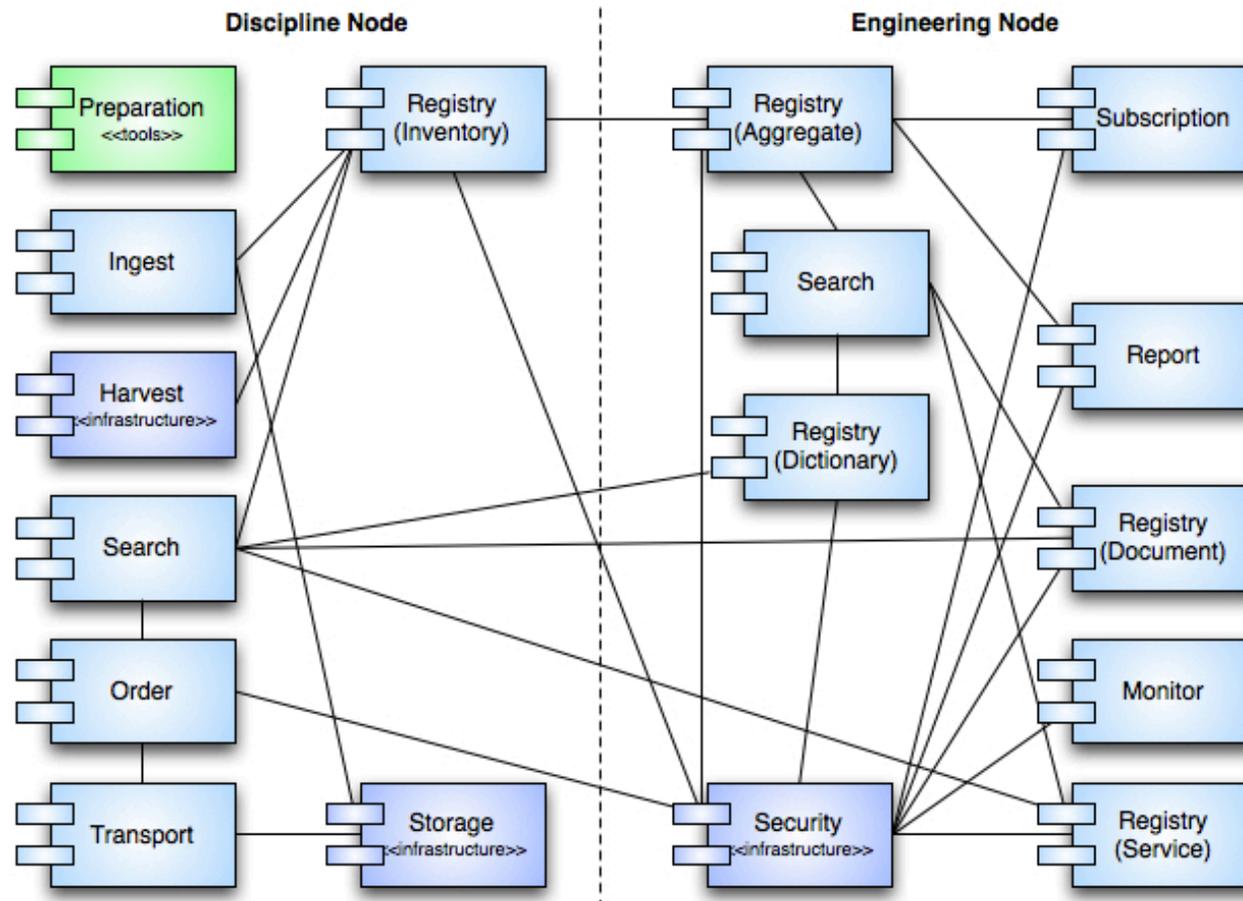
Overview

- One of the goals with the development of this system was to minimize the impact on the Nodes while still accomplishing the desired functionality.
 - That doesn't mean no impact.
- There are several scenarios, depending on the Node, for integration of the new system into their everyday lives.
 - Node specific integrations will be addressed after Build 2.
 - For Build 2, the integration will be with the Node's processes more than with their systems.

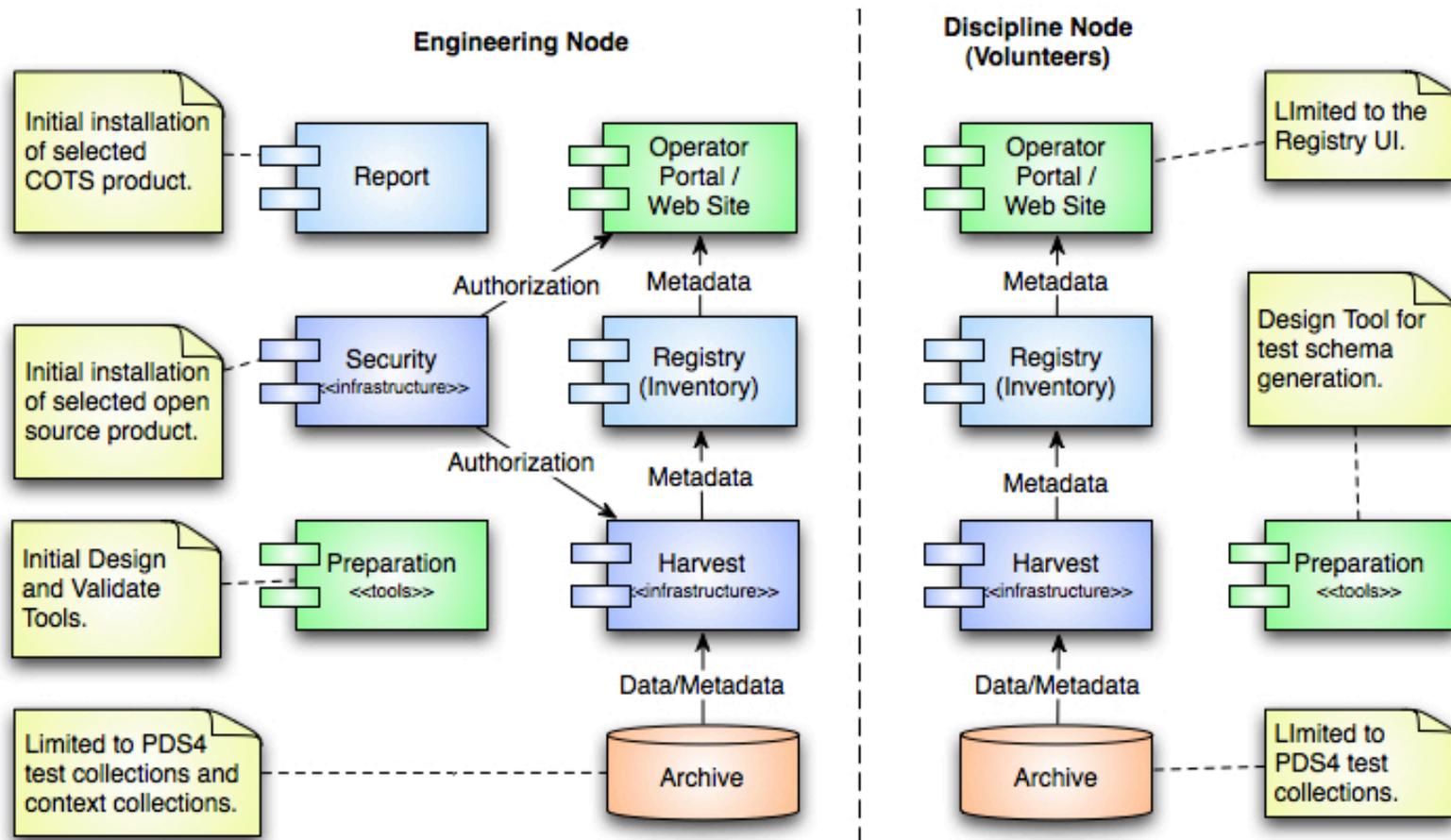
Build Phases

- Phase I – Ingestion
 - Core services that will provide the infrastructure for the system and support ingestion of data.
 - Tools for design, generation and validation of products.
- Phase II – Distribution
 - Services for discovery and retrieval of registered products.
- Phase III – User Services
 - Enhanced capabilities for discovering and accessing PDS data along with support for DN-specific applications.
 - Tools for transformation and visualization of products.

Component Provisioning



Build 1 Deployment

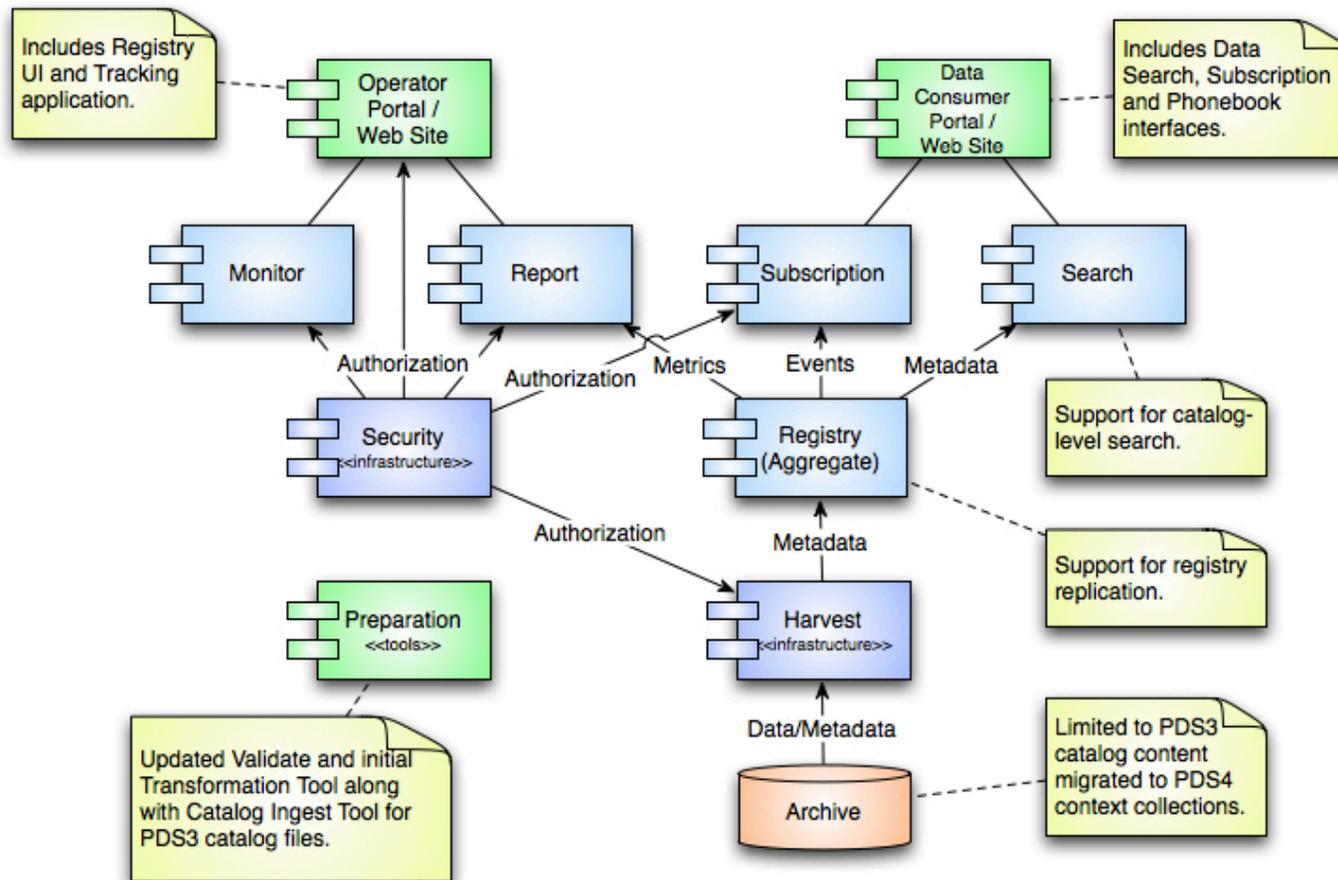


Build 1 Deployment

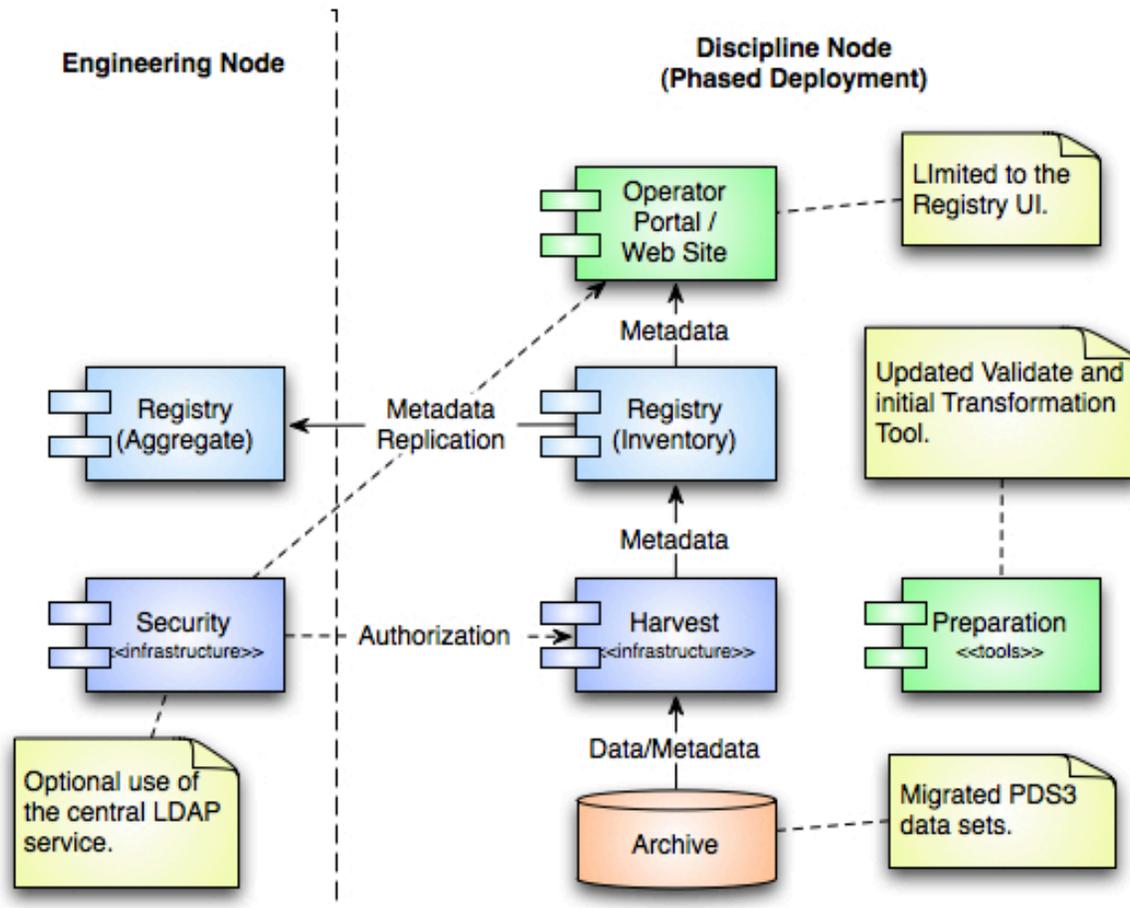
Additional Details

- Intended as a prototype build for the core components.
- Deployment of the software at the Nodes was voluntary.
 - The Atmospheres Node is the only taker so far.
 - It was a good experience working out system requirements.
- The exception to voluntary Node deployment was the use of the off-the-shelf Design Tools.
- No integration was required with this build.

Build 2 Deployment Engineering Node



Build 2 Deployment Discipline Node

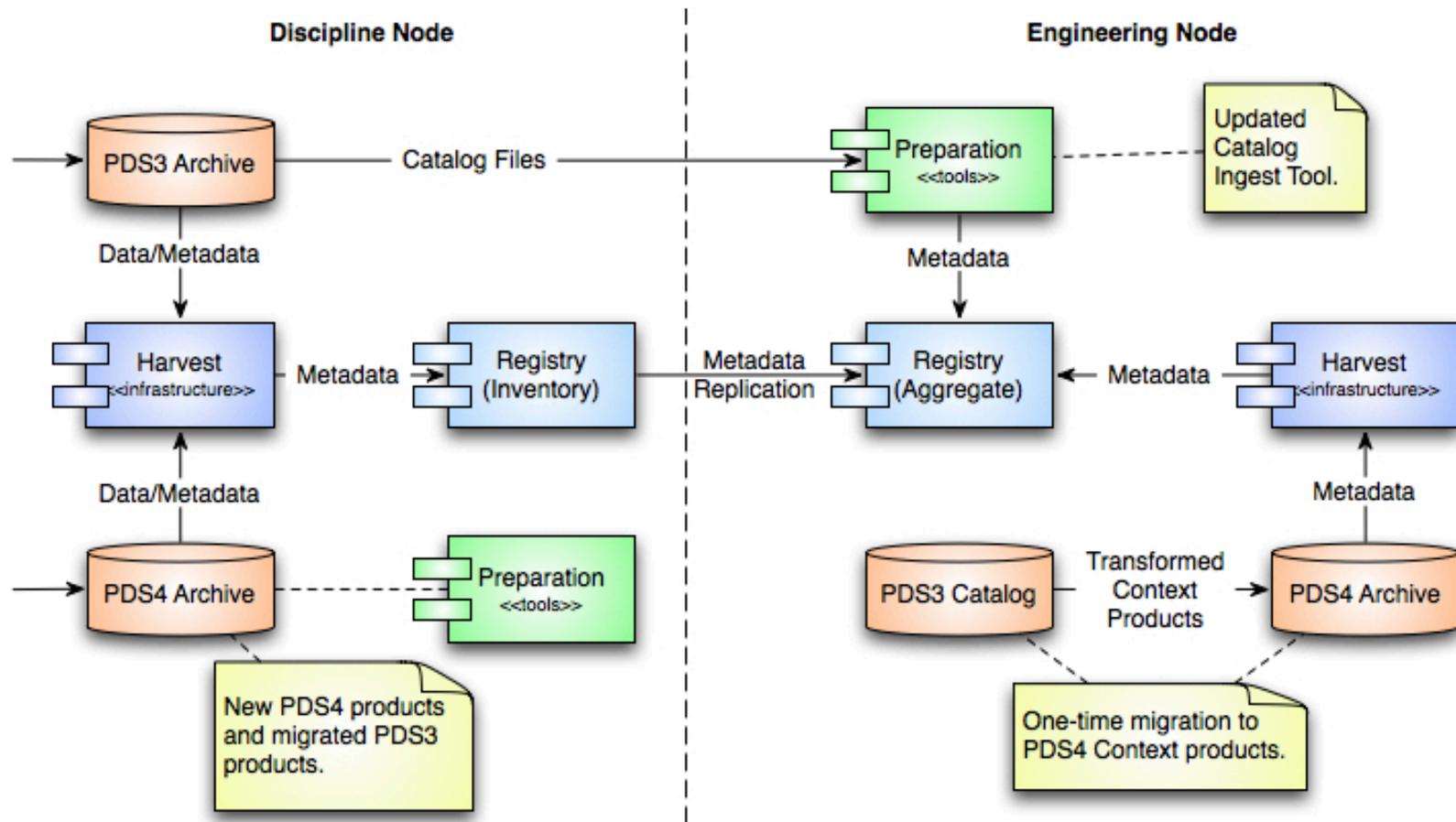


Build 2 Deployment

Additional Details

- Deployment at the Nodes will be phased throughout the year.
- Once deployment is complete, Node should begin registration of PDS3 products with the Harvest Tool.
 - This is not PDS3 product migration.
 - A generic proxy label is generated and registered for tracking purposes.
- In order to populate the Report Service, Nodes should make web and FTP logs available.

PDS3 Support



PDS3 Support

Additional Details

- The Harvest Tool supports both PDS4 registration and PDS3 registration.
 - PDS3 support consists of converting PDS3 labels into PDS4 proxy labels.
 - Registered for tracking and reporting purposes.
 - Will be replaced when the corresponding PDS3 data set is migrated to PDS4.
- The current Catalog Ingest Tool is updated to convert the catalog files to context products and register them with the registry.

Wrap Up

- Here is where Dan offers to send Sean to every Node for installation and integration of the PDS 2010 system software.

Questions / Comments