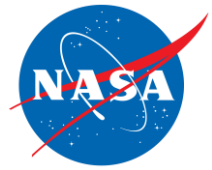




Tool Registry and Software Plans

PDS Management Council Face-to-Face
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Topics

- Overview
- Build 6b
- Tool Registry
- Reporting
- Java Update
- Next Steps



Overview

- Build 6a
 - Deployed to EN operations in November 2015.
 - Due to holidays, performance review, etc. we did not make a concerted effort to deploy this version at the Nodes.
- Build 6b
 - Currently working on several issues (old and new) to include in this build.



Build 6b

- Focus on content validation.
 - Finalize updated validation requirements.
 - Working with Ames to incorporate content validation requirements into Core Library.
- Get Tracking Service development underway.
 - This is where archive status and certification status will reside for PDS4 bundles/collections.
- Better integrate registry content and search results with available tools and services.
 - This includes at the EN and the DNs.
 - The Tool Registry is a good example of this.

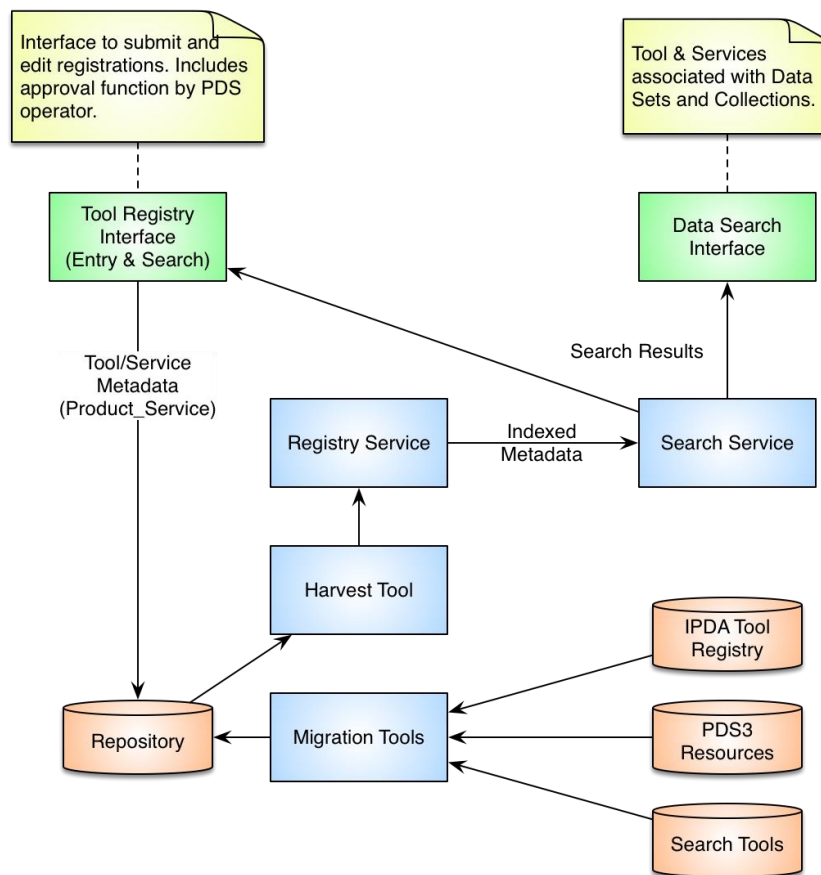


Tool Registry

- Initiated by the desire to expand the scope of the IPDA Tool Registry as well as the 9/28/15 action item to post a list of PDS tools.
- Intent is to incorporate all PDS tool sources into a single registry.
- The application will be built on top of existing PDS4 components.
- The Product_Service class has been updated to support this application (CCB-123).



Tool Registry Architecture





Tool Submission Interface

SearchAdd

Submit a New Tool

Use this form to submit a new tool or service to the PDS Tool/Service Registry.

Step 1: Tool/Service Information

Step 2: Service Interface Information

What's the name of your tool/service?

Type

Abstract Description

Description

URL

Version

 +

Release Date

Interface Type

API Command Line GUI Service



Tool Submission Interface (continued)



Version

Release Date

Release Date

Interface Type

API Command-Line GUI Service

Software Language

Software Language

Supported Operating Systems

System Requirements

Citation

Submitter Name

Submitter Name

Submitter Institution

Submitter Institution

Submitter Email

Submitter Name

Next



Tool Submission Interface (continued)



SearchAdd

Submit a New Tool

If the service interfaces for this software are described by a Web Application Description Language (WADL) file or a Web Service Definition Language (WSDL) file, then that file can be attached and described here.

[✍ Step 1: Tool/Service Information](#)

[📄 Step 2: Service Interface Information](#)

File input

No file chosen



Reporting

- Successfully generating HQ metric reports for all Nodes since October 2015.
 - Report files posted to EN site: <https://pds-engineering.jpl.nasa.gov/content/reports>
- Comparisons with previous Node generated reports has proven to be difficult.
 - Comparing apples to oranges.
 - Some Nodes matched up well, others not so much.
- Propose that we move forward with the Sawmill generated reports.



Report Format

- CSV formatted files, one for US domains and one for foreign domains for each Node.
 - Consistent naming scheme adopted.
- File includes domain, files downloaded, size in megabytes and unique visitors.

USA Domain	Files	Size	Visitors
arc.nasa.gov	28	0.37 M	4
arizona.edu	535	15.40 M	15
asu.edu	198	10.15 M	11
berkeley.edu	89	0.79 M	6
brynmawr.edu	12	0.19 M	1
bu.edu	57	0.39 M	5
caltech.edu	18	0.12 M	3
...



Report Enhancement Suggestions



- If useful, we can also add hits and/or page views to the reports.
- Do we filter out requests between the Nodes?
- Combine reports into a single file.
- List all domains, even when there are no visits.
- Remove the “M” from the size column.
- Maintain a cumulative report with the last 12 months.



Java Update

- With Build 6b, we will be compiling the software using Java 1.7.
 - Previous builds compiled with 1.6.
- Java 1.6 was end-of-lifed in 2011.
 - Technically 1.7 was end-of-lifed in 2014.
 - Baby steps.
- The impetus for the change is an issue with handling chained certificates.



Next Steps

- Continue to work with the Nodes and Management on metric report generation.
- Continue to work with the Nodes to deploy the PDS4 software locally and integrate it into their environments.
 - This includes population of the registries.
- Build 6b Delivery and Testing

Questions/Comments