PDS Tool Working Group (PDS-TWG)

PDS Tech Session

Sept 22, 2016

Agenda

- Charter
- Members
- Logistics
- Work Plan
- Tool Registration
- Level 3 Tool Requirements
- Gap Analysis
- Status
- Near Term Actions
- Next Steps

Charter

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- Maintaining the PDS Level 3 requirements for tools;
- Reviewing and overseeing the PDS-wide tool inventory;
- Identifying gaps and overlaps in tools;
- Recommending tool priority and phasing for development;
- Reviewing and commenting on specific tool requirements;
- Maintaining PDS-wide Tool Schedule and Plan;
- Supporting beta testing of tools as part of a release cycle;
- Hosting a tool summit with the PDS technical group; and
- Provide regular reports at the Management Council Face-to-Face meetings.
- Will be renewed annually

Members

- D. Crichton, Chair (E. Law as alternate)
- E. Guinness, Geosciences
- Joni Johnson, Atmospheres
- Todd King, PPI
- Jordan Padams, IMG (Moses Milazzo as alternate)
- Eric Palmer, PSI
- Tanya Lim, PSA
- * Sean Hardman, EN as ex-officio advisor

Logistics

- Mailing list: pdstwg@list.jpl.nasa.gov
- Monthly telecon via webex starting Aug 2016
 - 1st Wednesday 7:30 am Pacific Time
 - Two telecons were held so far
- Work space:
 - <u>https://pds-redmine.jpl.nasa.gov/projects/pds-twg</u>
 - <u>https://docs.google.com/spreadsheets/d/18oqtg3DEo</u>
 <u>2KrgvBOWLSOuqF2uZtq2XmByJwUknYSZUQ/edit#gid</u>
 <u>=126564646</u>

Work Plan

- Mapping L3 requirements to PDS4 tools
- Gap Analysis
- Tools Registration
 - The Tool Registry was discussed in the previous presentation.
- PDS-wide plan for tools in FY17

Level 3 Tools Requirements

- 1.5.1 PDS will provide tools to assist data producers in <u>generating</u> PDS compliant products
- 1.5.2 PDS will provide tools to assist data producers in <u>validating</u> products against PDS standards
- 1.5.3 PDS will provide tools to assist data producers in <u>submitting</u> products to the PDS archive
- 1.5.4 PDS will provide documentation for installing, using, and interfacing with each tool

Level 3 Tools Req (cont.)

- 3.3.2 PDS will provide a capability for opening and <u>inspecting</u> the contents (*e.g.* label, objects, groups) of any PDS compliant archival product
- 3.3.3 PDS will provide tools for <u>translating</u> archival products between selected <u>formats</u>
- 3.3.4 PDS will provide tools for <u>translating</u> archival products between selected <u>coordinate</u> systems
- 3.3.5 PDS will provide tools for <u>visualizing</u> selected archival products

Gap Analysis

- What are available at EN/Nodes?
- Can Node tools be shared?
- What tools are missing?
- What improvements can be made?
- How to prioritize?

Status

- A Google Sheet was created for the mapping of level 3 requirements and tools:
 - <u>https://docs.google.com/spreadsheets/d/18oqtg3</u>
 <u>DEo2KrgvBOWLSOuqF2uZtq2XmByJwUknYSZUQ/e</u>
 <u>dit#gid=126564646</u>
- Using this to facilitate gap analysis and traceability with respect to PDS requirements and available tools

Preliminary Results

- 46 distinct tools captured in the Google Sheet.
 - This includes some tools not yet in the Tool Registry
- Identified 2 possible missing categories

 Submission and Peer Review
- Identified 3 possible missing requirements

 Design, Peer Review and Analysis/Reader

Preliminary Results (cont)

- Tools needed
 - Support PDS4 version of NASAView (planned for FY17)
- Functionality needed (from existing tools)
 - Generate PDS4 labels using a template and sources other than PDS3 label
 - Verify correctness of LIDs
 - Find mid-point of observation and geometry
 - Support web based transformation

Near Term Actions

- Capture comments in Google Sheet
- Evaluate Redmine vs Google Sheet for capturing and archiving TWG artifacts
- Review IPDA tools in Google Sheet and Tool Registry

Next Steps

- Near Term Priority
- Discuss Transformation tool needs
- FY17 Planning

Thank you

Questions?