

MGSS
Instrument Operation Subsystem (IOS)

AMMOS-PDS Pipeline Service (APPS)
Status Briefing

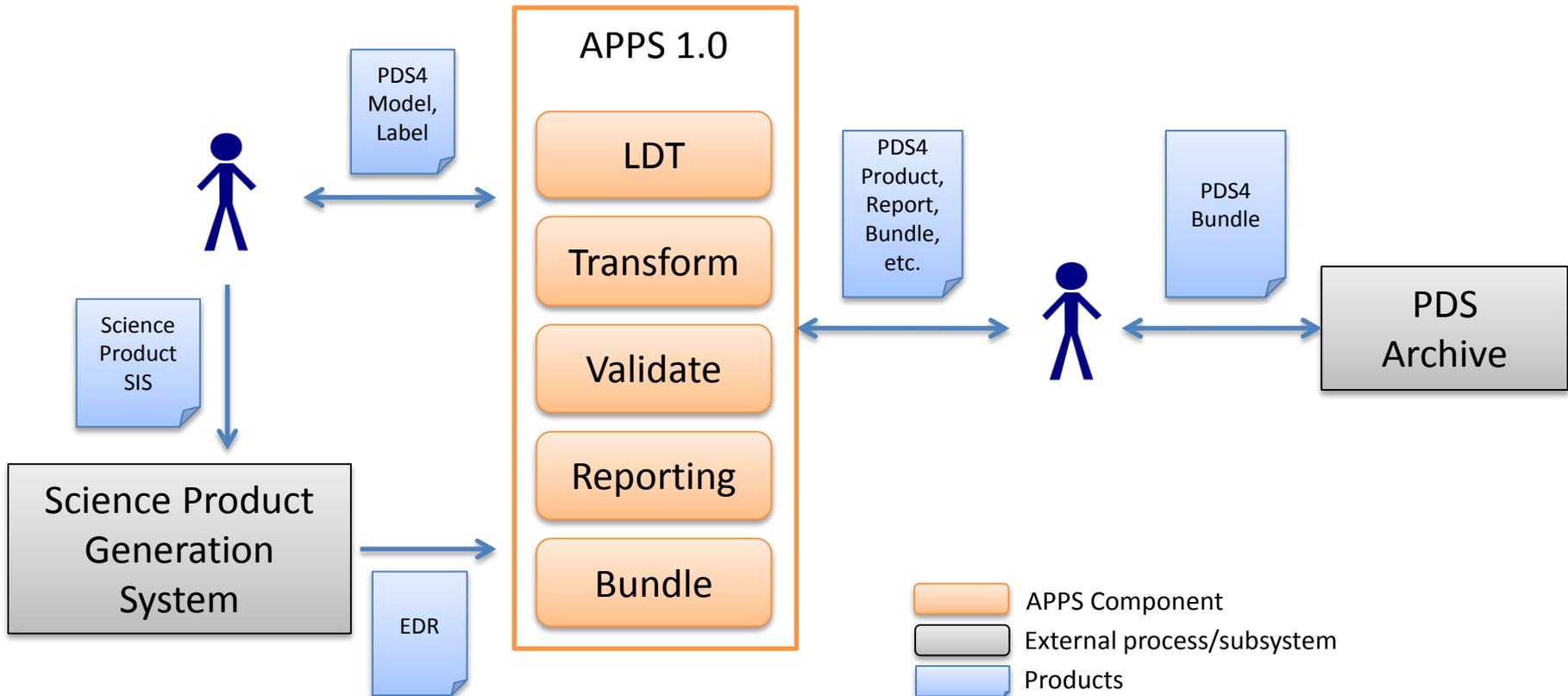
Costin Radulescu

Steve Spohn

26 August, 2014

IOS APPS Refresh

- APPS 1.0 Context View:



APPS Components

- LDT
 - Also outside facing at: www.apps-ldt.jpl.nasa.gov
- Transformation (transcoder)
 - PDS to PDS to ImageIO and back
 - Using Velocity templates
- Validation (vTool)
 - Generate both XML and JSON reports
- Reporting (various queries to the APPS database)
 - JSON reports
- Bundling
 - Using Business Process Model Notation (BPMN 2.0) Standard process definitions.

APPS User Teaming

- LDT
 - PDS Small Bodies Node (UMD) User testing:
 - Mike A’Hearn, Anne Rough and the rest of the team at UMD used the service at www.apps-ldt.jpl.nasa.gov and provided early testing, and valuable feedback regarding the features of the tool.
 - Special thanks to:
 - PDS Engineering (Sean Hardman): excellent infrastructure and overall team support.
 - MIPL-IOS infrastructure (Janet Fung, Greg Earl, Alex Leung): JPL IT Security support.
 - APPS team (Stirling Algermissen) for putting it all together.
 - PDS Imaging Node:
 - Elizabeth Rye and Amy Culver validated various labels for InSight using the LDT and provided early feedback.
- Project Infusion
 - InSight: LDT infused in early May ’14: used by Payam Zamani to generate the SIS table for the camera SIS:
 - Received great feedback (available in Ver 2.0).
 - InSight/MIPL Bundle generation (automate the generation of the bundle collections labels)
 - Elizabeth, Amy, Payam great support in generated templates for collection labels.
- Feedback was exceptional:
 - Some recommendations were already incorporated in the 1.0 delivery while others were captured and will be delivered in 2.0 (APPS D44.0)

Availability

- LDT available now via web service access at www.apps-ldt.jpl.nasa.gov
- All APPS 1.0 components available as a package (tar ball) on 10/9/14

IOS APPS Schedule

- ✓ 6/24/14: Final APPS D43.0 S/W delivered to I&T
- ✓ 7/7/14: IOS D43.0 I&T underway
- ✓ 8/1/14: APPS Webtop (D44.0) approved; underway
- 9/29/14: Start APPS 2.0 development (FY15)
- 9/30/14: IOS D43.0 I&T complete
- 10/2/14: IOS D43.0 Delivery Review
- 10/9/14: IOS D43.0 Delivery to Operations
 - Full APPS availability
 - Includes User Guide, deployment, instructions and other necessary customer aides
 - Deployed or Service-based
- 10/30/14: APPS Webtop 0.1 available

Next Steps

- APPS 2.0
 - Webtop: provide an integrated APPS tools and services view using Point & Click UI within the browser.
 - Science product SIS collaboration environment.
 - Resource (file) sharing environment among PDS discipline engineers and Mission system engineers.
 - PDS4 Bundle submission service
 - Validate & Move bundles to the appropriate PDS discipline node
 - Template generation tools/services for PDS product transformations.
 - Other features captured from user feedback (e.g. schematron validation, auto-completion, required vs. optional keyword selection & desc., etc.)

Contacts

- Contacts:
 - APPS CE: Costin Radulescu
 - LDT CE: Sterling Algermissen
 - IOS AEM: Steve Spohn
 - IOS User Consultant (POC): TBS
 - MGSS MIO: Eleanor Basilio

- Questions?