

Report on IPDA TEG activities

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PSA Development Team (PSA-DT)

IPDA TEG

- Activities initiated first quarter of 2009
- First teleconf on February 2009 (on PDAP assessment issues and extension to non-map-projected data)
- Mail list created on Feb 2009 ipda-teg@planetarydata.org
- Second teleconf celebrated in May
- Issues:
 - Reduced number of inputs (mainly JAXA, NASA, ESA)
 - VERY difficult to organise teleconfs. Will have to modify modus operandi (special thanks to Yukio Yamamoto for his late stay at work! ☺)

Representatives within the TEG

IPDA-TEG Nominated People

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Inputs to the TEG

- JAXA assessment on PDAP
- JAXA inputs on PDAP extension
- NASA inputs on:
 - System Architecture
 - Information Data Model
 - MAP extensions
- ESA inputs on PDAP extensions

Summary of 30 June 2009 meeting

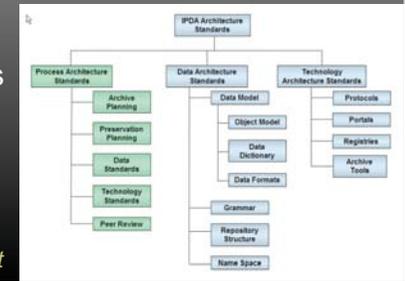
- System Architecture
- Information Model (PDS4)
- PDAP
- PDS 2010
- Tools sharing and services

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System Architecture (by Dan Chrichton)

- Document prepared by Dan Chrichton
- Available at: <http://planetarydata.org/standards>
- Three critical architecture views including process, data and technology
- Suggestion to create an "IPDA Cookbook" with recipes On how to create an Archive From scratch

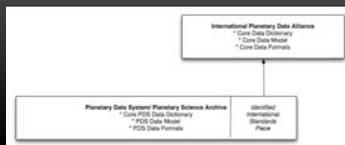
Please do send your comments/suggestions to the IPDA-TEG mailing list



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Information model (by Steve Hughes)

- Also called PDS4
- The PDS4 effort grew out of the IPDA effort and can be considered a response in some sense to supporting internationalization (remarcable auto-review from NASA colleagues; much appreciated)
- Is PDS3 → PDS4 a problem?
- PDS4 should conform the basis for an eventual IPDS
- While NASA is the original creator of PDS-n, your inputs are really needed for the PDS4 → IPDS evolution!!



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PDAP (by Jesús Salgado)

- PDAP implementations reported on:
 - Venus Express data (PSA)
 - Hayabusa and Selene data (JAXA)
 - Some PDS data (PDS)
- Extension to non-map-projected data
- Registering of services
 - Action taken on IPDA-TEG:
 - Identify needs for Registering
 - Feed it into eventual new project for Registry creation

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PDAP (II)

- Prototype client for data discovery needed
- Inclusion of flexible query-language access through PDAP:
 - Clarify difference of meaning of "Query Model" versus "Query Language". Steve and Pedro to write small explanation note and make it available. Steve to figure out a different name for Query Model?
- **action be coordinated by the TEG to capture a few planetary use cases, demonstrate that they are supported by PDS4, and demonstrate that they can be implemented in PDAP. The assumption is that this will both drive development and validate the design to support a query language and query scenarios**
- Data access is transparent to the user but make sure proper credits are given to originator

PDS 2010 (by Dan Chrichton)

- Major upgrade on PDS to become a "service oriented" data system
- Improve data tracking from inception to deep into the archive
- PDS 2010 to use PDS4. PDS4 approach to detached labels appropriate? → trade-off pros-cons
- Can PDS3/PDS4 coexist?
- Europlanet: test bed for PDS4 usage? → action:
 - **PDS team to circulate PDS4 to community –with clear indications on significant differences with PDS3- for review and eventual evolution to IPDS**

Tools and sharing (round table)

- Validation tool needed? Yes. One for all? No. Only at top level:
 - Have an IPCT (IPDA Certification tool) which checks very top level compliancy
 - Allow "local" validation tools to validate at lower level
- Action on TEG:
 - **Identify main certification issues needed for eventual IPCT tool and feed it back to Standards Identification Project**
- Other tools suggested: costing, design, shared libraries

Tools (II)

- Action on TEG:
 - **Compile from agencies/institutions available existing tools and feed back to community through IPDA web pages**
- Analysis/discovery tools to be made available by IPDA?
→ too costly. Not envisaged as feasible

(Last minute) From PDAP assessment

- Action on PDAP Assessment group to produce a spreadsheet with assessment changes requirements for PDAP
- Action on IPDA-TEG to look into PDAP assessment input matrix, discuss its contents and make agreements for implementations. Feed back into PDAP project.
- Action on PDAP project to implement agreed changes, and include a historical record with pointers to spreadsheet input

Summary of actions on TEG

- Identify needs for registering and feed it into eventual new Registry project
- Identify a set of Planetary Use cases, assess them within PDS4, and PDAP access
- PDS4 to be distributed to community for eventual evolution to IPDS
- Identify main “certification” functionalities required for eventual IPCT (IPDA Certification tool)
- Compile from agencies/institutions available tools