Minutes of Teleconference 19 July 2006
Data Access and Prototype WG (IPDA)

Date: 19 July 2006, 15:00-15:50 UTC

Participants:

PDS-EN, JPL:	Steve Hughes, Sean Kelly
PDS-Geoscience Node:	Susan Slavney, Ed Guinness
PDS-Atmos:	Reta Beebe
PSA-ESTEC:	Marta Castro, David Heather, Maud Barthelemy
PSA-ESAC:	Pedro Osuna, Christophe Arviset, Jesus Salgado

0. Action Items

Actions related to Data Access WG taken from IPDA general actions.

AI-NO	*Actionee*	*Description*	*Status*
200602-03	PO	Pedro to draft the "Standard Specification for Protocols" (or similar) document	ongoing
200604-01	SS	SS to prepare a list of data types for GRS and send to Steve. 2006Jun22: was done. GRS is using PDS TABLE object	done
200604-02	JS/PO	JS to add new value for RESOURCE_CLASS, value= PRODUCT and PO to change technical document. 2006Jun22: was implemented, change in document pending (close action item and carry document change over to AI: 200604-02)	ongoing
200606-01	PO	Update Technical Note on Protocol (SOP-RSSD-TN-063): . to add to document that the keyword values are taken from the PDS dictionary by default; . to replace the MAXIMUM/MINIMUM LATITUDE by the EASTERNMOST and WESTERNMOST LONGITUDES . to update the TN in respect of the RESOURCE_CLASS and PARAMETER	ongoing

AI-NO	*Actionee*	*Description*	*Status*
		keyword. (see section 3 of MoM from 26 April 2006) . to describe definition and model for spatial queries	
200605-02	SK, JS	Update existing agency prototypes to support for spatial response (15 June 2006) 2006Jun22: done on PSA side (closed), SK will do before end of June 2006	PSA: closed PDS: ongoing
200605-03	ALL	Develop individual clients to demonstrate interoperability: . Map-based demonstration (for mid July) as IDL search and map-based search . Integration into the PDS-D search (30 June)	Map-based done until new PDS data available PDS prototype ongoing accessing PDS datasets through OODT and PSA datasets through PDAP. Not public yet

1. Report on PDAP implementation status on PSA-ESAC infrastructure

JS reported previous versions implementing RESOURCE_CLASSes DATA_SET and PRODUCT and Version 1.0 installed at http://psa.esac.esa.int:8080/aio/doc/
Image RESOURCE_CLASS implemented

Footprints implemented following the next proposed syntax:

```
POLYGON(lon1:lat1|lon2:lat2|...|lonN:latN)
```

SK reported the PSA_ESAC implementation looks good. MC reported everything is OK to be used by the PSA-ESTEC prototype, and no problems have been found using the footprint definition, although she has not tried other kind of footprints like ellipse or circle. JS pointed these kind of footprints are not present in the PSA, so we have to wait until the PDS PDAP implementation is ready.

2. Report on PDAP implementation status on PD infrastructure

SK reported implementation stopped due to internal security restrictions. GRS data

cannot be accessed for the time being and SK is implementing a PDAP server in his local computer, but the security constraints are limiting the usability of the server.
RB asked about specific information about the internal security problem. CA asked SK if the security problem is close to be solved. SK answered the current situation does not make him very optimistic. SH reported the imaging node can be used to access the data.

JS asked if the PDAP implementation at DataSet and Product level on PDS data is on-going. SK answered as soon the security problems are solved, the general PDAP implementation on PDS datasets will be done.

From the prototype point of view, a client using OODT technology for PDS datasets and PDAP for PSA datasets is in development at PDS, but the server is not public yet. SK reported the system is already connecting successfully to both PDS and PSA servers.

3. Report on implementation on the PSA-ESTEC version of the prototype

MC reported a IDL interface to the PDAP (only to PSA for the time being, as PDS) has been implemented. All the PDAP keywords of PDAP implemented in the client, including time, instrument name, etc. She suggested a new keyword "orbit number" could be useful in the protocol. This prototype connects to the PDAP server, parses the VOTable, draws the footprints on a Mars map and is able to show the Icon.

JS pointed the Icon could be specific of the PSA PDAP implementation so it should be only shown if present. MC agreed.

JS asked if there is a preliminary version of the application that can be used by the developers. DH reported the version is still experimental, and they want to wait a little more until to provide something to be used externally.

MC reported an extension of the client application is on-going, selecting different target types (planets, starts, etc) and using a HST database to take the target names. This is not a map version. JS will ask further details off-line.

4. PDAP document update, footprints definition, coordinates origin, etc

Document updates:

- **Related to action 200606-01: Replace the MAXIMUM/MINIMUM LATITUDE by the EASTERNMOST and WESTERNMOST LONGITUDES.**

JS asked about one use case prepared by Susan and sent to Steve to fully understand if the change is only syntactic. Use case forwarded by Steve to JS.

- **Use of "minor than" and "major than" in URL.**

SS sent an e-mail about possible problems both in the creation and in the parsing of not standard URL characters "<" and ">". Two proposals done by PSA-ESAC team:

Use same solution as it was proposed in the Simple Line Access Protocol document, Appendix A:
http://www.ivoa.net/internal/IVOA/SpectralLineListsDocs/SLAP_0.5.pdf

i.e. replace URLs
MINIMUM_LATITUDE>25&MAXIMUM_LATITUDE<30&MINIMUM_LONGITUDE>25&MAXIMUM_LONGITUDE<30
by
LATITUDE=25/30&LONGITUDE=25/30
where this notation represents a range from 25 to 30

The second proposal (that will solve this particular case) is to replace the ">" and "<" characters by equals, as the meaning is the same. SK prefers first option.
MC and JS reported the syntax change is not a big issue at the client/server part.
The change will be reflected in the next document version, and it is closely related with the previous explained action.

- **RESOURCE_CLASS=QUERY_PARAMETERS.**

PO/JS proposed different output depending of the dataset, sending the dataset id as one constrain input parameter. SH answer that could be enough. SH to prepare inputs about possible problems with this query_parameters query.

5. AOB

SS asks SK about the status of the TWiki pages. SK reported the domain reservation, but financial management and security problems need to be solved before.
SS points TWiki pages are very important to start IPDA infrastructure. PO agrees. SK the pages will be prepared as soon as these problems are solved.

6. Next teleconf

Next teleconference is planned for 12 September 2006, 15:00 UTC