Planetary Data System

IPDA/Venus Express Interoperability Project

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Project Team Members

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Mission Overview

- Launched in November 2005

- Arrival at Venus in April 2006

- Currently in extended mission phase

- Unlike for MEX, there is no MOU to provide VEX data to the PDS… all data will reside only at the PSA
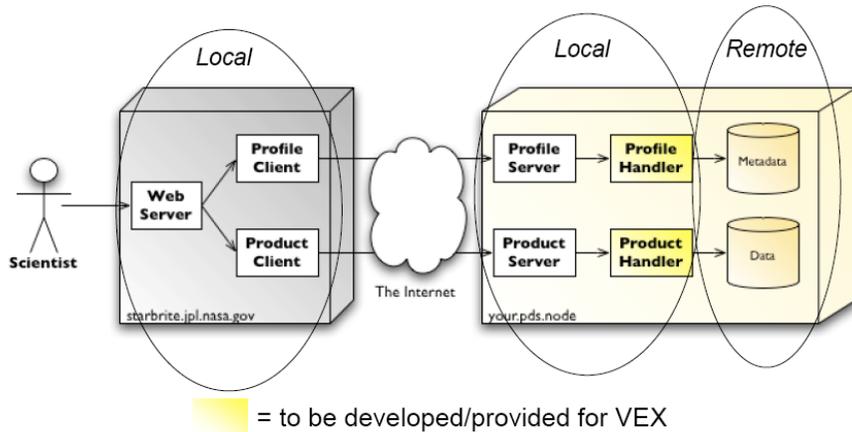

Instrument Suite

Instrument	Heritage
Venus Monitoring Camera (VMC)	MEX/new
Analyser of Space Plasma and Energetic Atoms (ASPERA)	MEX
Planetary Fourier Spectrometer (PFS)	MEX
Visible and Infrared Thermal Imaging Spectrometer (VIRTIS)	Rosetta
Venus Express Magnetometer (MAG)	Rosetta
Venus Radio Science Experiment (VeRa)	Rosetta
Spectroscopy for the Investigation of Characteristics of the Atmosphere of Venus(SPICAV/SOIR)	MEX/new

Some of these data are ingested into the PSA

Proposed Architecture

= to be developed/provided for VEX

Status as of June 2009

- Profile server at EN is functional

- ATMOS can talk to EN profile server and access VEX data

- Entry pages being developed by student

- Ready to integrate the entry pages with the results from the profile server
- Can find the VEX data on the PDS from the following link:
  http://atmos.nmsu.edu:8080/pds/power.jsp (select Venus Express mission and hit Go at the bottom of the page)

VEX Profile Server Results

click this to get….

VEX Profile Server Results

then click this link to get this data listing…

Summary

- Proof-of-concept PSA-PDS interoperability has been demonstrated

- Final steps:
    - Finish entry pages on PDS Atmospheres Node and formally announce availability of VEX data
    - Integrate remaining VEX data sets as they become available