

Interoperability in the Planetary Science Archive (PSA)

C. Ríos¹, S. Besse¹, C. Vallat¹, I. Barbarisi¹, C. Arviset¹, G. De Marchi², M. Barthelemy¹, R. Docasal¹, D. Fraga¹, E. Grotheer¹, D. Heather¹, T. Lim¹, A. Macfarlane¹, S. Martinez¹, F. Vallejo¹, P. De Teodoro¹, J. Saiz¹

¹ESA/ESAC Camino Bajo del Castillo s/n, Ur. Villafranca del Castillo, 28692 Villanueva de la Canada, Madrid, Spain;

²ESA/ESTEC, 2200 AG Noordwijk, Netherlands

As the world becomes increasingly interconnected, there is a greater need to provide interoperability with software and applications that are commonly being used globally. For this purpose, the development of the Planetary Science Archive (PSA), by the European Space Astronomy Centre (ESAC) Science Data Centre (ESDC), has been focused on building a modern science archive that takes into account internationally recognised standards in order to provide access to the archive through tools from third parties, for example by the NASA Planetary Data System (PDS), the VESPA project from the Virtual Observatory of Paris as well as other international institutions.

The protocols and standards currently being supported by the recently released new version of the Planetary Science Archive at this time are the Planetary Data Access Protocol (PDAP), the EuroPlanet-Table Access Protocol (EPN-TAP) and Open Geospatial Consortium (OGC) standards.

We explore these protocols in more detail providing scientifically useful examples of their usage within the PSA.