EPSC
European Planetary Science Congress

Accessing planetary plasma datasets via the TAP and PDAP protocols

Nataliya Bourrel (1), Baptiste Cecconi (2), Pierre Le Sidaner (3), Stéphane Érard (2), Michel Gangloff (1), Christian Jacquey (1), Jérôme Berthier (4), Etienne Pallier (1), Nicolas André (1), Nicolas Lormant (5), Florian Topf (6)

(1) IRAP, CNRS-Université Paul Sabatier, Toulouse, France; (2) LESIA, CNRS-Observatoire de Paris, Meudon, France; (3) Observatoire de Paris, Paris, France; (4) IMCCE, CNRS-Observatoire de Paris, Paris, France; (5) AKKA, Toulouse, France; (6) IWF, Graz, Austria

Abstract

There are many challenges to achieving interoperability and data sharing across heterogeneous systems. Systems and data are implemented and stored across multiple platforms and specifications. This has created rigid point-to-point integrations.

To allow the interoperability of data discovery when querying planetary science data centers, the needs are to have common standards and specifications to search and retrieve data from the disparate sources provides.

From a data producer perspective, they are provided with a common construct on how to expose their data, without having to compromise their internal implementation, that users and systems can easily discover, search, and consume.

TAP (Table Access Protocol) and PDAP (Planetary Data Access Protocol) are protocols to access, distributed and retrieve planetary data. They can permit to provide an interoperable and flexible environment to search, aggregate and retrieve data.

We will present the prototype of interoperable system planetary plasma datasets based in the Planetary Science Resource Data Model designed by EuroPlaNet IDIS (Integrated and Distributed Information Service) via the TAP and PDAP protocols.

Acknowledgements

References

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