

# TAP & EPN-TAP (1)

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- TAP = Table Access Protocol.  
IVOA developed standard
- Query to relational database, using SQL-type language  
(*ADQL, astronomy data query language*)  
Results in VOTable (*many servers allow other output types, such as JSON*)
- TAP is generic (*i.e., can be reused outside astronomy*)
- TAP services are implemented for many ESA science mission (astronomy, planetary and heliophysics)

# TAP & EPN-TAP (2)

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- **EPN-TAP = EPNcore (metadata dictionary) + TAP**  
Developed by Europlanet/VESPA for Solar System sciences (i.e.: planetary + heliophysics)
- EPN-TAP = data discovery API
  - Query metadata = coverage (time, spectra, location), provenance, content, access...
  - Service is registered in IVOA registry (discoverable by clients)
- EPN-TAP compliance allows:
  - same query sent once to all services
  - access through any TAP client
- Currently: 55 services (1/3 serving heliophysics data)