

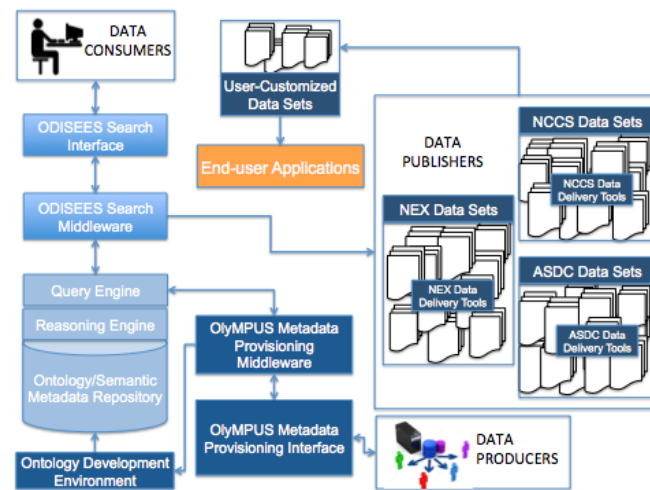


OLYMPUS: OntoLogY-based Metadata Portal for Unified Semantics

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Objective

- Enable scientists to find and download data variables that satisfy their precise criteria
- Aid data owners in creating robust and detailed metadata which is adequate to support parameter-level discovery and access services
- Demonstrate the value of semantically rich, variable-level metadata in the data analysis pipeline at the NASA Earth Exchange (NEX)



OLYMPUS system architecture

Accomplishments

- Deployed and tested integrated data discovery and acquisition system in NEX target environment
- Successfully demonstrated integration of OLYMPUS with the previously-developed Ontology-Driven Interactive Search Environment for Earth Sciences (ODISEES) and verified OLYMPUS-generated metadata records are discoverable via ODISEES search tool.
 - Evaluated independently by Earth Science Information Partners (ESIP) to be TRL 5.
- Implemented improvements to the ODISEES data discovery system: integrated text search capability, an interface with CREATE-IP Subsetter at NCCS.
 - Fully integrated data discovery and acquisition workflows with ODISEES web application.
 - Deployed and tested with representative data sets
- Implemented a metadata provisioning tool that guides users through the process of creating detailed, variable-level metadata using the ontological framework and controlled vocabulary of the ODISEES metadata repository

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TRL_{in} = 3 TRL_{out} = 5