

# Ontology Specification Introduction (Past GGF Meetings)

Access Services for RDF Data Resources

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### **Operational Model**



- Possible alternatives:
  - Graph-oriented
  - Object-oriented
- Operation types:
  - Creation/removal
  - Retrieval
  - Attachment/detachment
- Side issues:
  - Inference aware vs inference unaware operations

### Recalling the design criteria (II) Interface organization



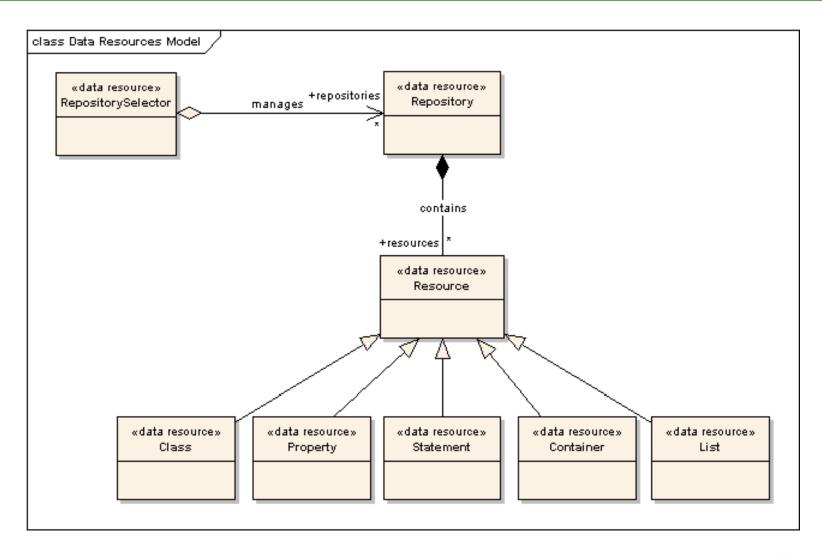
- Two layers:
  - Bulk access
  - Specialized access
- Interface types:
  - Native interfaces: mimic classes of the RDF(S) data model
  - Utility interfaces: provide additional functionalities that enhance usability
- Message definition:
  - Direct data access:
    - Retrieval of directly associated information
    - Creation of new data (including attachments)
    - Deletion of existing data (including detachments)

#### Indirect data access

 Delegation of access to services that provide specialized access to a subset of associated information

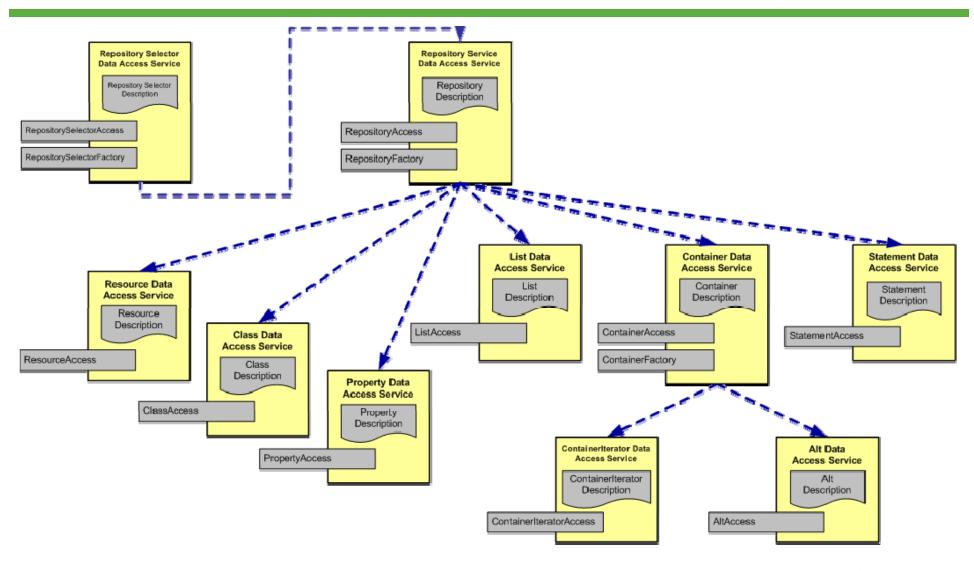
## Current status (I) Data resources





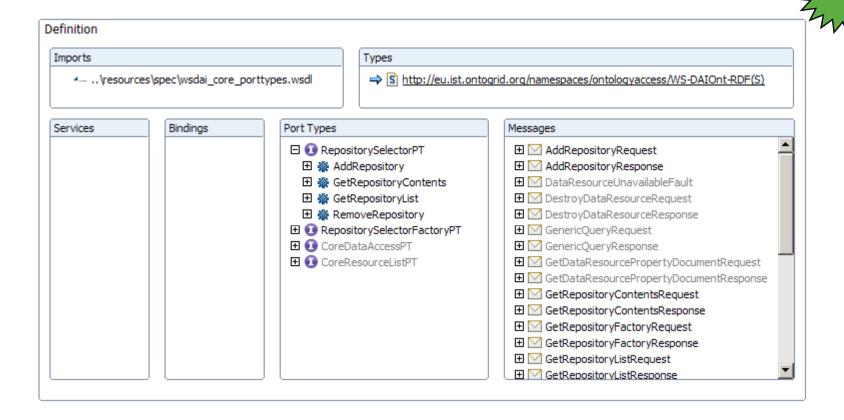
# Current status (II) Interface organization





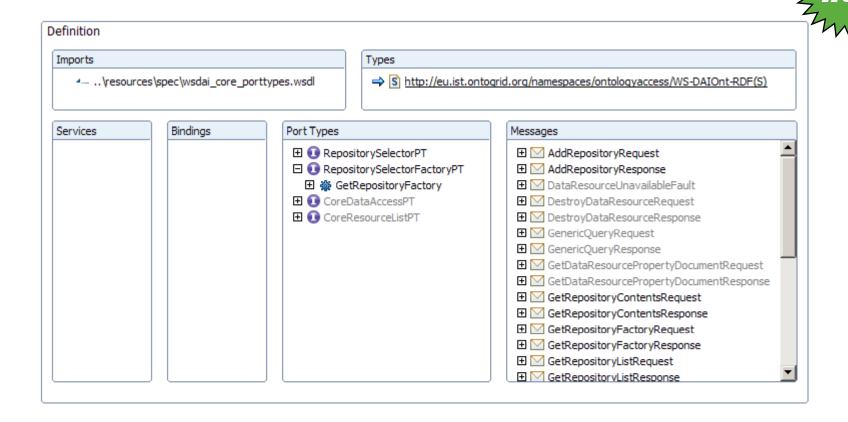
#### Current status (III), Interfaces provided (I) RepositorySelector





#### Current status (III), Interfaces provided (II) RepositorySelectorFactory

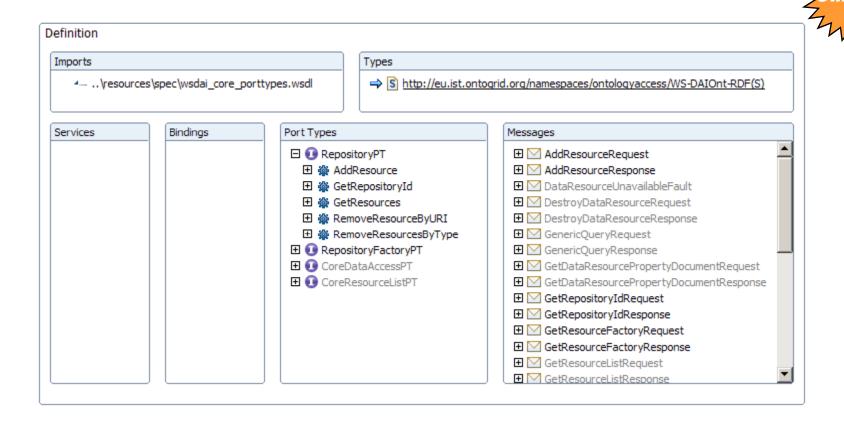




## Current status (III), Interfaces provided (III)

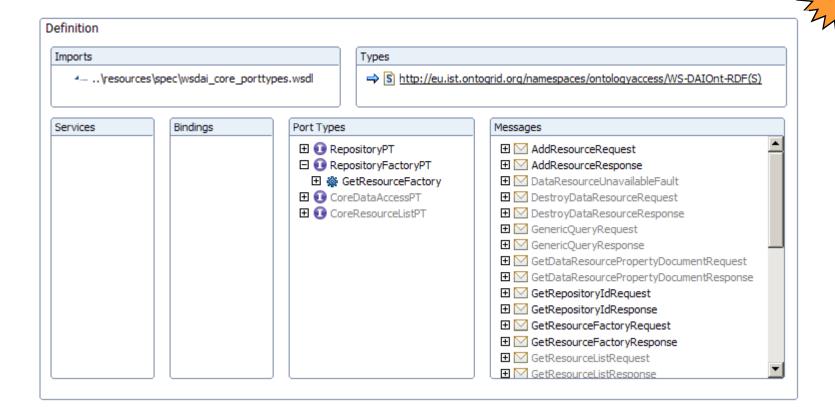


Repository



## Current status (III), Interfaces provided (IV) RepositoryFactory

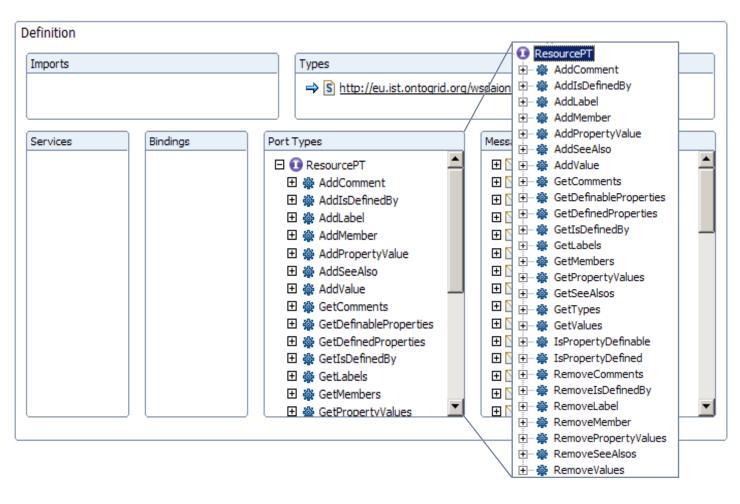




## Current status (III), Interfaces provided (V)



Resource

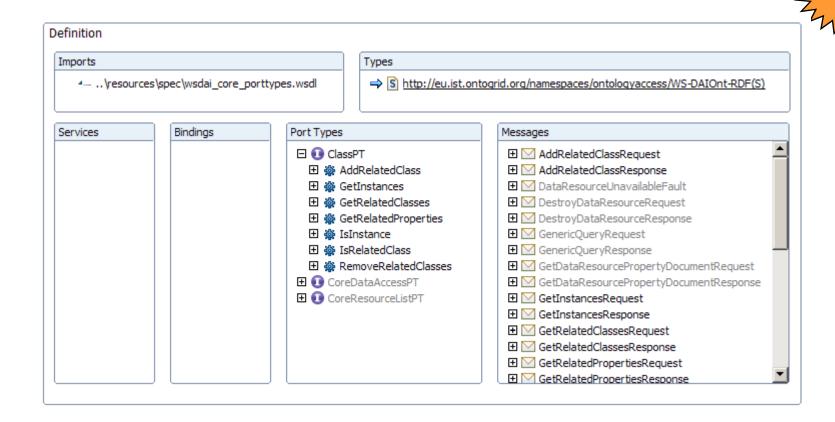




# Current status (III), Interfaces provided (VI)

Class

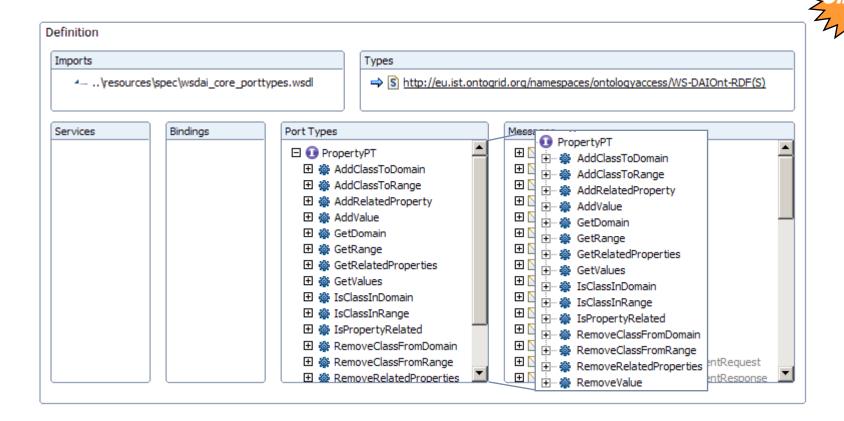




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#### Current status (III), Interfaces provided (VII) Property

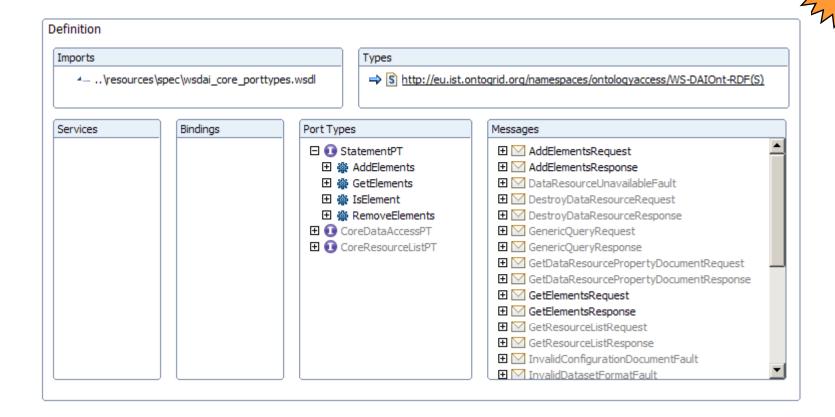




### Current status (III), Interfaces provided (VIII)

#### Statement

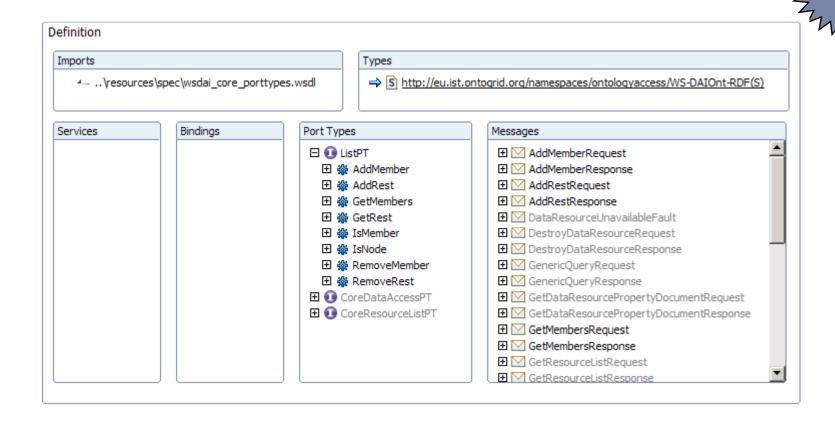




## Current status (III), Interfaces provided

List

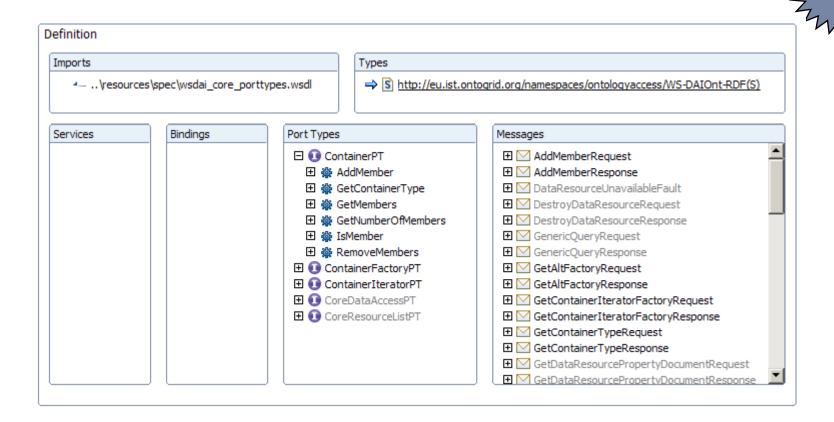




## Current status (III), Interfaces provided (XI)

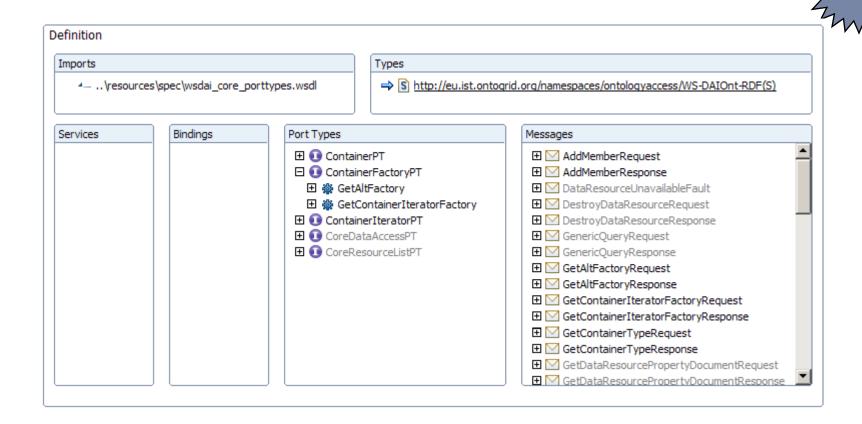


Container



#### Current status (III), Interfaces provided (XII) ContainerFactory

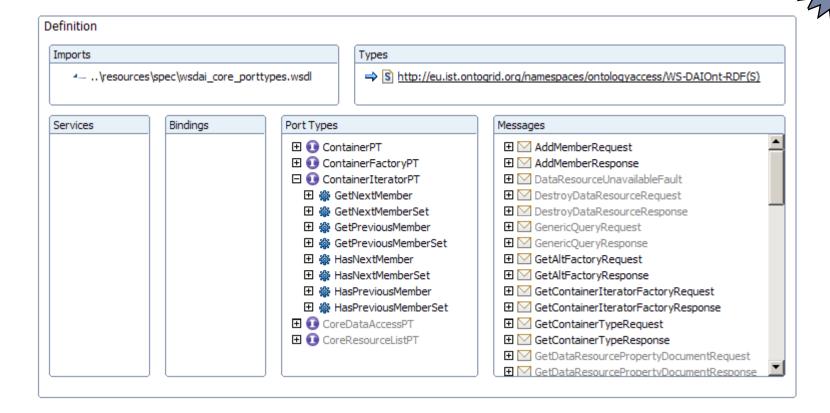




### Current status (III), Interfaces provided (XIII)

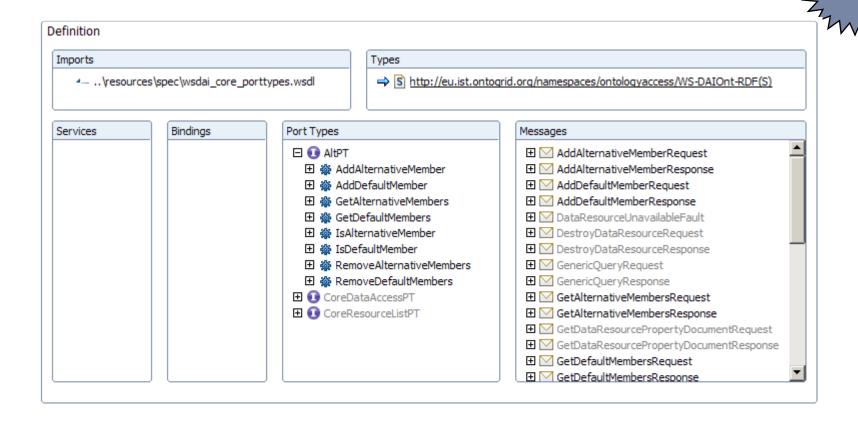
#### ContainerIterator





### Current status (III), Interfaces provided (XIV)

Alt



#### **Future Work**



- Behavioural aspects
  - Static properties
  - Configurable properties
- Test suite

- Sample use cases
- Glossary of terms