



# Implementing VOSpace 1.x


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# IVOA VOSpace 1.0


 vos://uk.ac.cam.ast!vospace-1.1/

 image-001.png

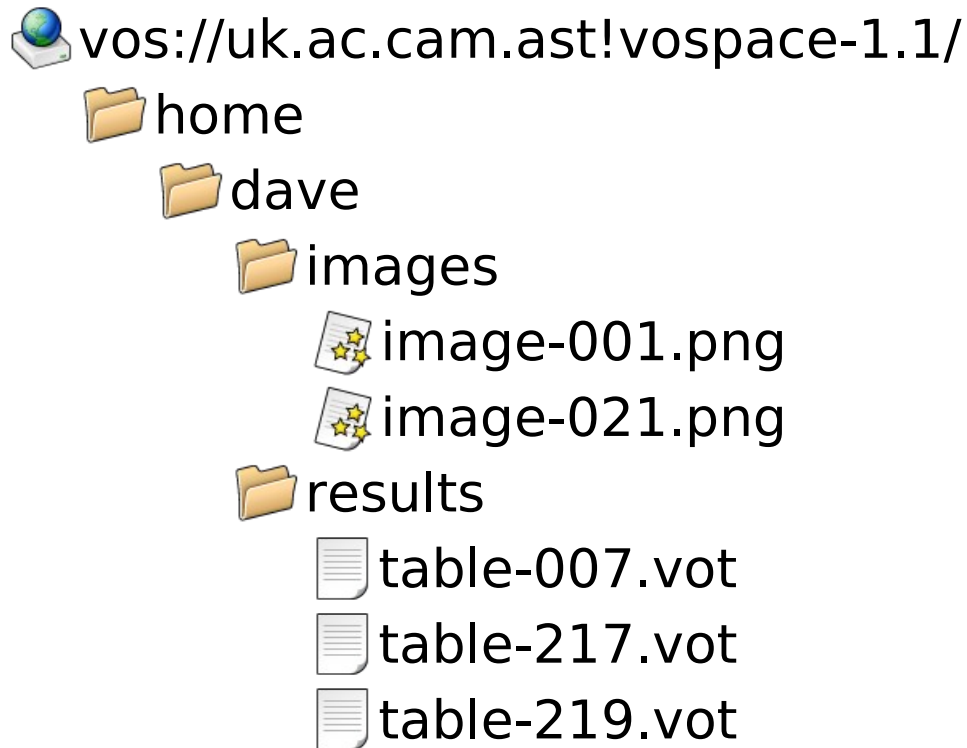
 image-021.png

 table-007.vot

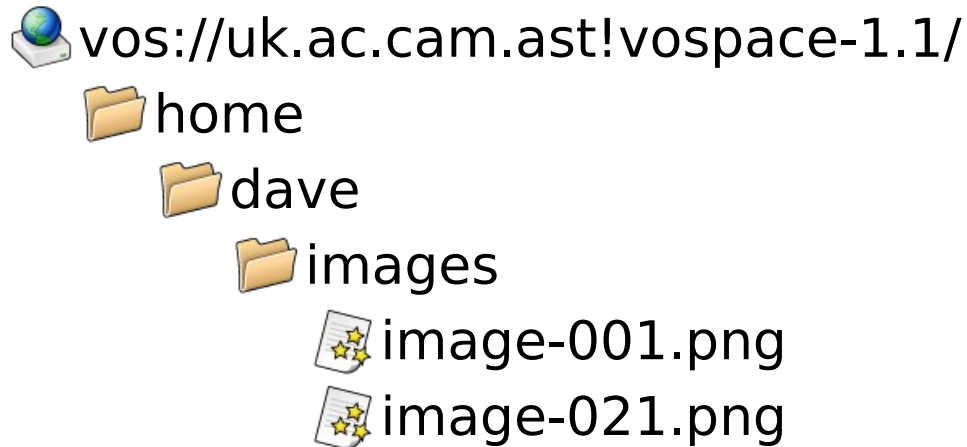
 table-217.vot

 table-219.vot

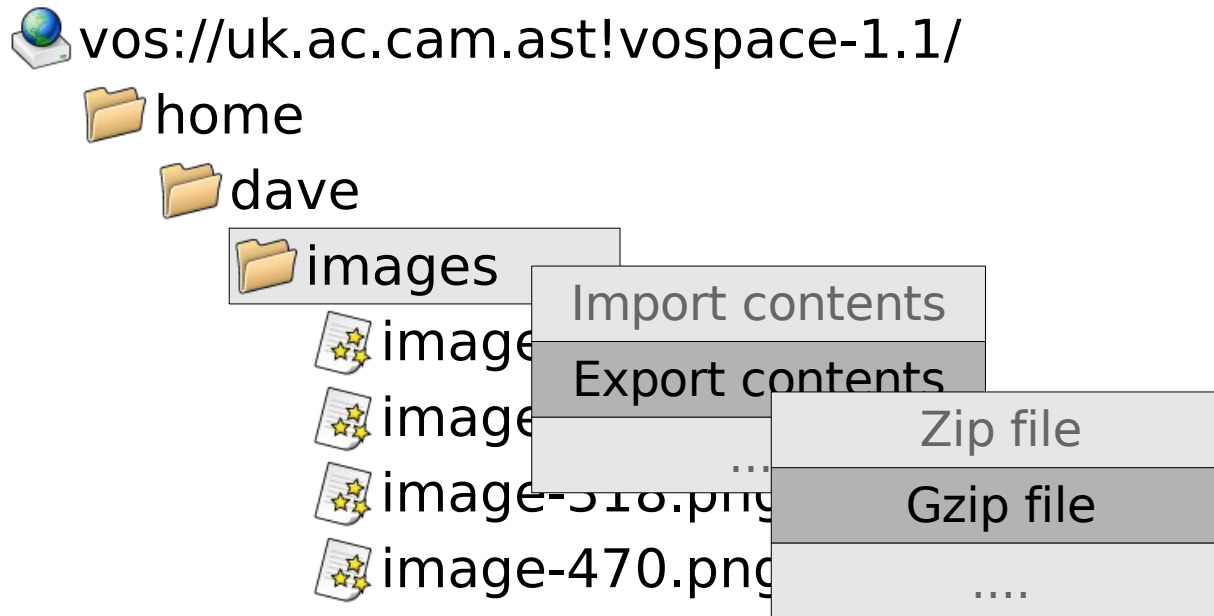
- Support for more than one protocol
- Support for more than one view
- Asynchronous 3<sup>rd</sup> party transfers
  
- Published as IVOA working draft



- Containers
- Hierarchical space within each service



- Containers
  - General agreement on behaviour
    - Still to do
    - Details of capabilities and metadata
- “This container accepts the following data types”*



- Container transfers
- Transfer contents as a single object

# IVOA VOSpace 1.1


# Things to add ....


 vos://uk.ac.cam.ast!vospace-1.1/

 home

 dave


 images


 image-001.png


 image-021.png


 vos://uk.ac.roe!vospace-1.1/

 images

 image-020.png

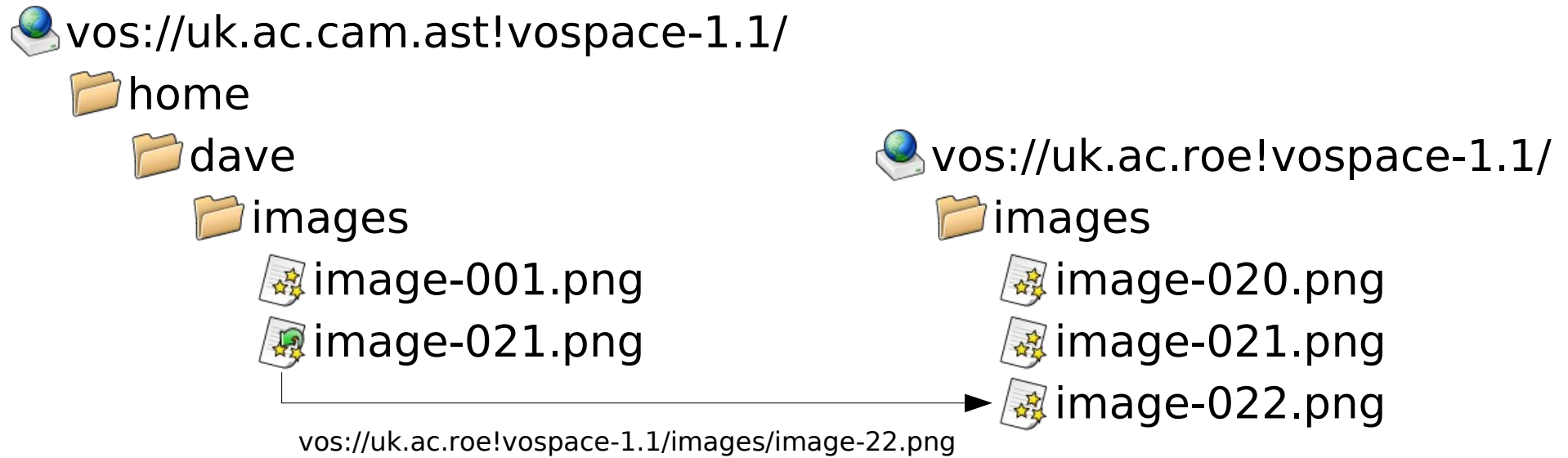
 image-021.png

 image-022.png

  
vos://uk.ac.roe!vospace-1.1/images/image-22.png

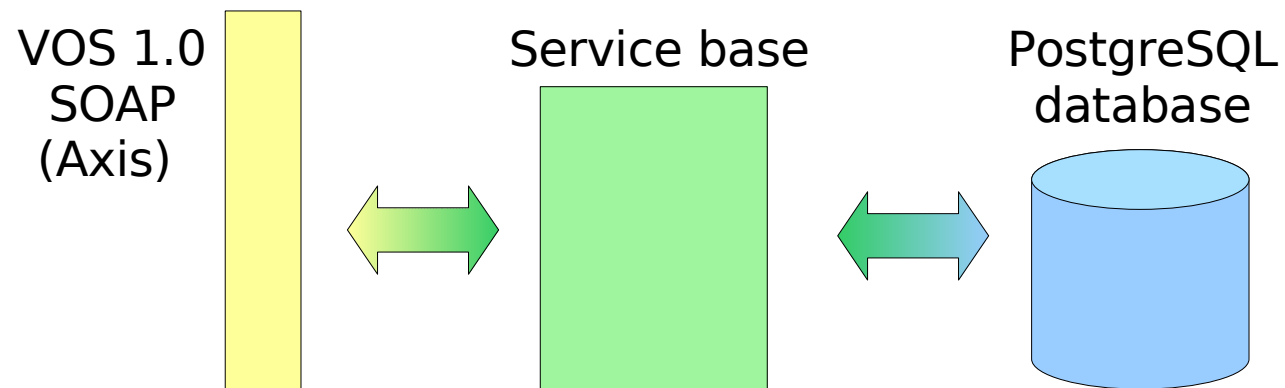
data appears  
in my space,  
but data is  
still in ROE  
service

- Inter space links
- Links to objects in other services



- Inter space links
- General agreement on behaviour
  - Still to do
  - Final details of schema and exceptions

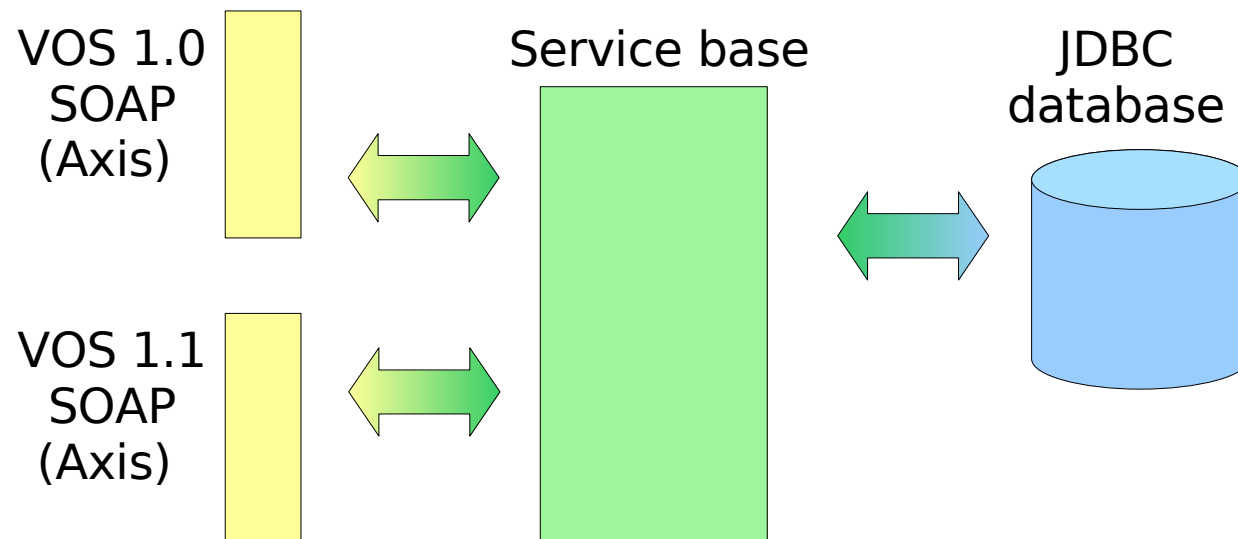
# AstroGrid VOSpace 1.x Implementation ....



- Core service base
- Stores node metadata in RDMBS
  - Current implementation uses PostgreSQL
  - Capable of using any JDBC compliant RDBMS

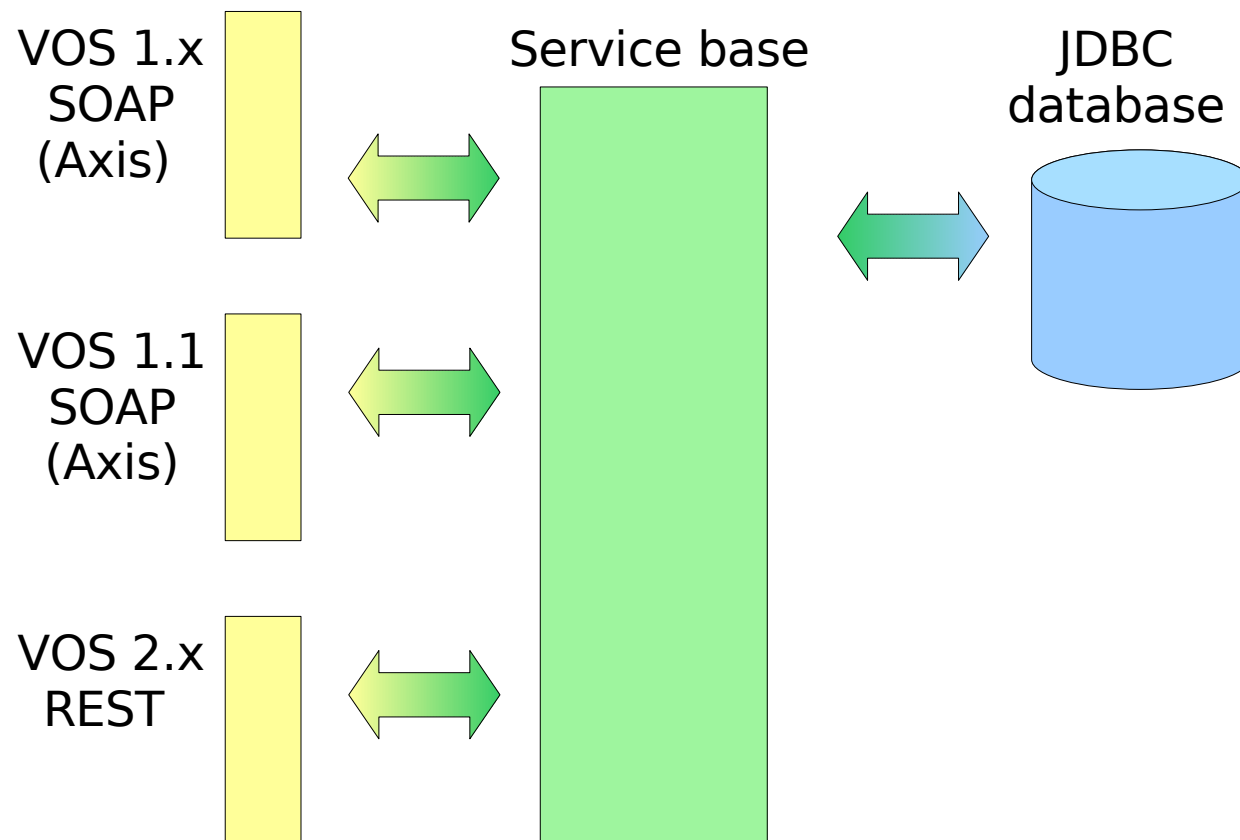


# AstroGrid VOSpace 1.x Implementation ....

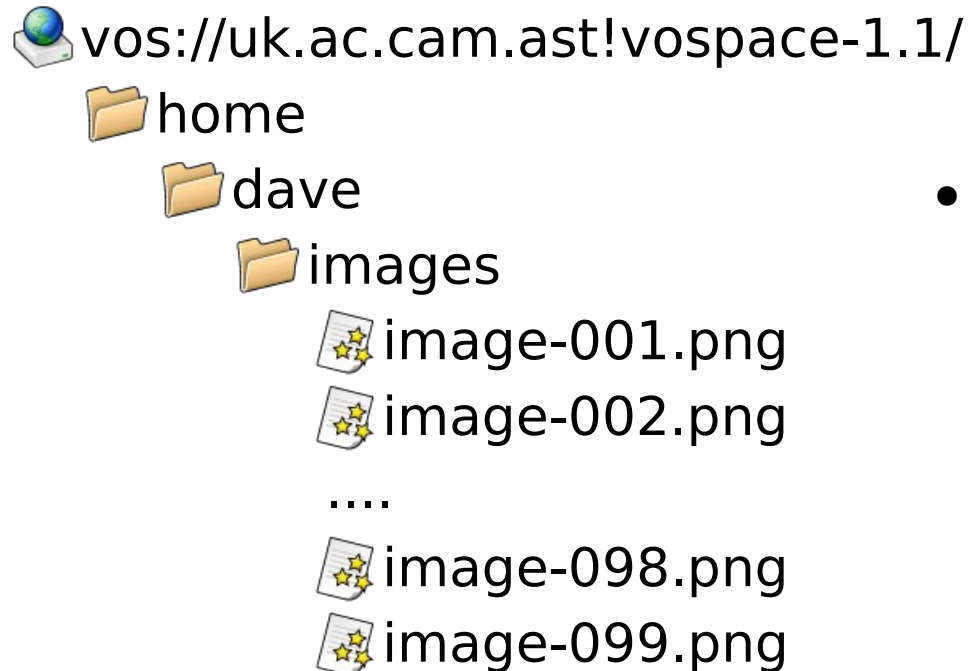


- Support for more than one version
  - VOS-1.0
  - VOS-1.1

# AstroGrid VOSpace 1.x Implementation ....

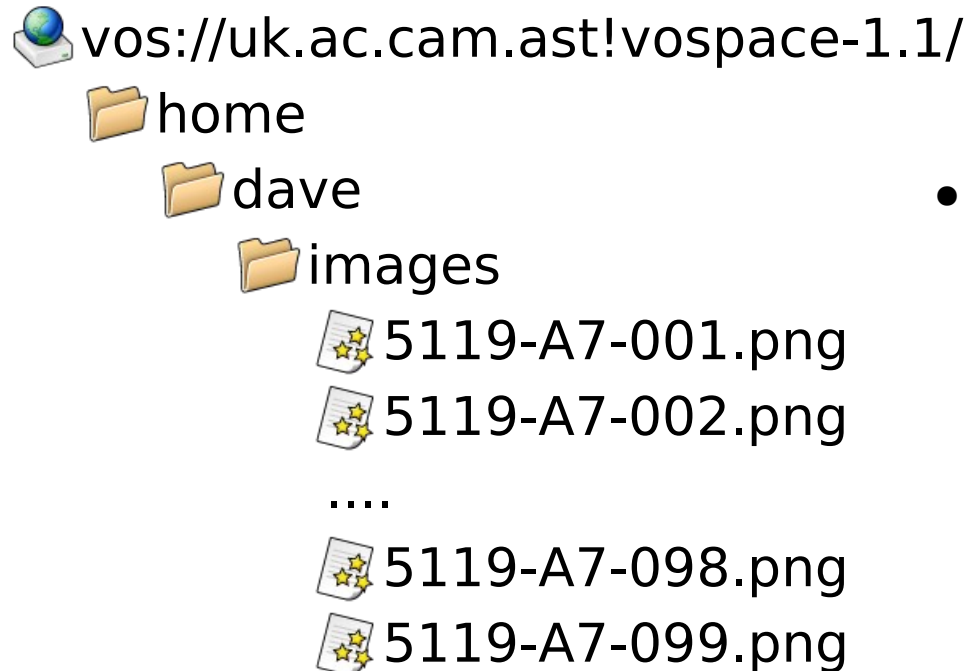


- Support for more than one interface
  - VOS-1.x SOAP services
  - VOS-2.x REST services



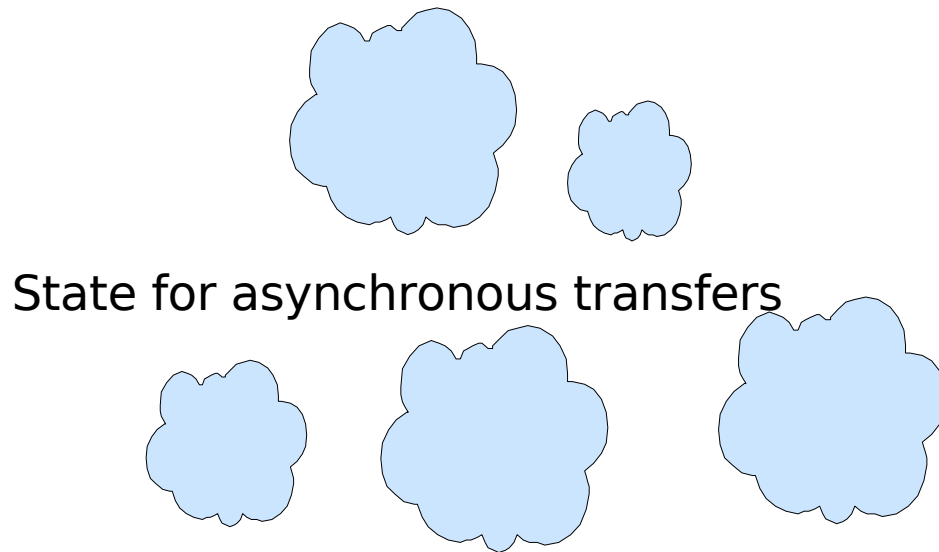
- ListNodes

- Request 1<sup>st</sup> 'page'
- Response contains 'token'
- Request next 'page' using token
- Tricky to implement server side
- UI developers don't need it
- Not compatible with REST
- REST style would be simpler
- List everything in one response



- Generated names
  - vos://null
  - Not clear to users
  - Won't work with containers

- Reserved name .auto
- Applied to any path
  - vos://service/path/.auto
  - vos://service/path/5119-A7-100



How do we represent the state of a transfer

- As a VOS Node with properties ?
- As a UWS object ?

Initiate a transfer, response contains representation of state

- Transfer has state
- Transfer has nested state for each protocol

## Naming of protocol and view params

- Current form uses 'string' names
- Causes problems representing state of a transfer as a Node
- Current schema makes it difficult to identify a parameter using a URI.
- Can we refactor these to look like properties ?
  - Re-use existing schema elements rather than define new ones
  - Protocol param == Node property
- Or ... do we actually need protocol and view params ?

- VOSpace 1.1
  - Inter space links
    - General agreement on behaviour
    - Still to do
    - Final details of schema and exceptions
  - Containers
    - General agreement on behaviour
    - Still to do
    - Details of capabilities and metadata