



# OpenCADDC - cadcVOS

- provides domain classes for some Node types
- provides XML read/write Node and Transfer
- provides restlet application for /nodes resource
- provides customisable NodeDAO class
- uses cadcUWS for the /transfers resource
- provides VOSpaceClient
- stability: [alpha \(more or less working\)](#)
- java + restlet, spring, JDOM, log4j



# OpenCADDC - cadcTestVOS

- provides unit tests for all the REST interactions
  - GetContainerNodeTest, GetDataNodeTest
  - CreateContainerNodeTest, CreateDataNodeTest
  - UpdateContainerNodeTest, UpdateDataNodeTest
  - DeleteContainerNodeTest, DeleteDataNodeTest
  - PushToVOSpaceTest, PullFromVOSpaceTest
- we use as integration tests
- java + HttpUnit



# VOSpace + collaboration

- survey teams can share access to data files
  - group-readable property
  - IVOA SSO w/ X509 certificates
  - use GMS to determine if caller is a member of group
- survey team members can put data in common location
  - group-writable property (ContainerNode)
  - SSO + GMS



# VOSpace + VM storage

- users need to create/copy/list/delete VMs
- users want to let collaborators run their VM
  - group-readable property
- user may want to let someone else fix their VM
  - group-writable property
- cloud infrastructure must be able to retrieve VM
  - proxy certificate (hopefully)
  - group-readable by a “cloud” group (if proxy certificate use not supported)



# VOSpace + PI distribution

- need to collect and organise files from a specific program

[\\$serviceURL/nodes/programs/<programID>](#)

- PI and team members need to browse and retrieve data
  - group-readable property, telescope maintains group
- notify users when new data arrives

[\\$serviceURL/nodes/programs/<programID>?view=rss](#)



# VOSpace Node Properties

- node “owner” always has read-write permission
- group-readable property
  - value is a URI
    - <ivo://cadc.nrc.ca/gms!groups/<gid>>
  - need read permission to access node
- group-writable property
  - value is a URI (as above)
  - need write permission for all POST and PUT
  - need write permission to negotiate a PushToVOSpace (to existing DataNode)



# VOSpace Node Properties

- operational use by external users: June, 2010
- source code:

<http://opencadc.googlecode.com/>