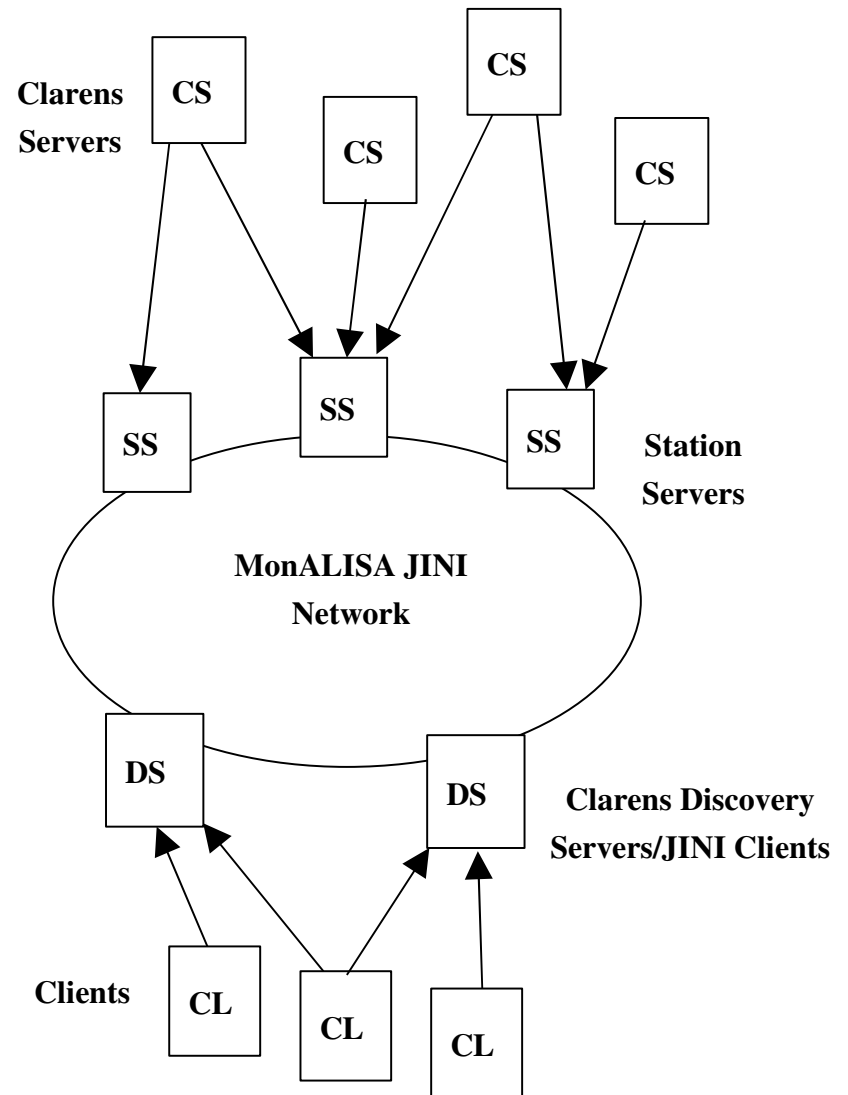


OSG Discovery Service

- Web Service Catalog, similar to UDDI, but better suited for a dynamic grid environment
- Publish and Discover Web Services in the OSG
- Dynamic global registry
- Based on the JClarens grid service framework and MonALISA



Discovery Mode

- Connects to MonALISA “network” and receives service publications from other Discovery Services
- Local instances receive same publications, have identical catalog contents
 - Local view of the global catalog
- No MonALISA installation required

Publication Mode

- Web Service interface for publishing service descriptions to Discovery Service
- Web Service implementation publishes description to MonALISA.
- Publications received by all local instances of Discovery Service
- Requires MonALISA with ApMon extension enabled; does not have to be local

Dynamic Registry

- Service publications expire after some amount of time
 - Defined during publication by the publisher, or uses default determined by server
- Services must re-publish to remain in the registry

Service Interface

- `find_server (encoding, uri, provider_dn, vo)`
- `find(encoding, uri, provider_dn, vo, name)`
- `register(ServiceDescriptor[])`
- `deregister(ServiceDescriptor[])`

Service Descriptors

<http://discover.gridservice.info/wsd/rendezvous.wsd>

Service Descriptor contains:

Endpoint list {uri, encoding (soap, xmlrpc)}

Name

Admin email

VO

uri_suffix

Site

Description

WSDL url

provider_dn

item {key, value}

How to publish

- DRM includes publication code, minor DRM configuration needed
- VOMS-Admin – Scripts provided by VDT 1.3.8:
jClarens-Publisher
 - Customize configuration for your VOMS server, including gums template and edg-mkgridmap.conf entry
 - Single-shot scripts for publishing and querying to the Discovery Service
 - Script to generate edg-mkgridmap.conf template from discovery service registry
 - /etc/init.d script to run the publication as a daemon process

How to Query

- Use script in jClarens-Publisher package from VDT
- ...or point web browser at
http://ultralight.caltech.edu:8080/jclarens/web/rendezvous/rendezvous_interface.html

Status

- VDT 1.3.8 Upgrades
 - Support for (multiple) key-value pairs in the Service Descriptors
 - Minor performance improvements
 - VOMS service publication scripts
- Agreeing on common interface with EGEE
- <http://osg.ivdgl.org/twiki/bin/view/Integration/DiscoveryServiceInstallation>
- <http://osg.ivdgl.org/twiki/bin/view/Integration/DiscoveryServicePublication>
- Currently used by JobMon