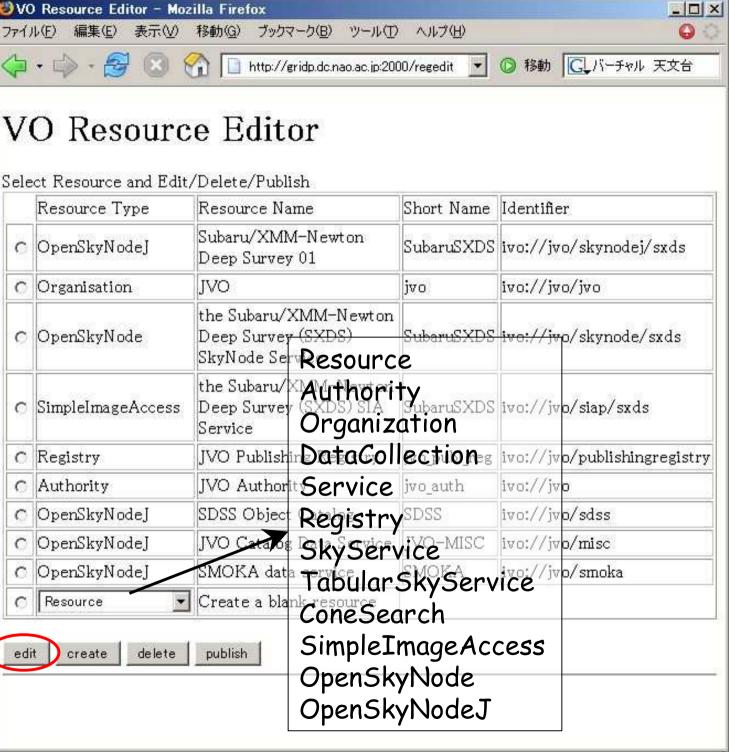
JVO Publishing/Searchable Registry Implementation Experience

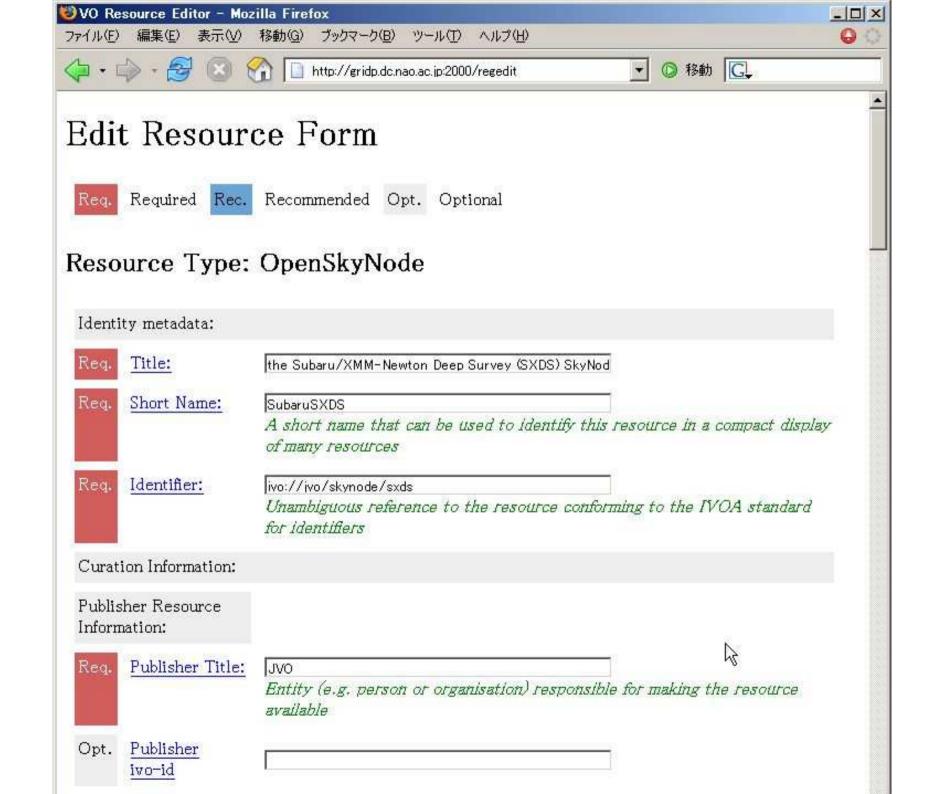


Publishing Registry of JVO

- · AccessURL:
 - http://jvo.nao.ac.jp/publishingRegistry/
- NVO software is used for making publishing registry.
 - http://nvo.ncsa.uiuc.edu/VO/software/VORegistry-In-A-Box.html
- At the time of installation (2005 Jan), this software was not compatible with VOResource version 0.10.
- · We modified it so that resource metadata is stored in v0.10.
- · Currently 9 Resources are emitted from this registry
 - Organization (1), Authority (1), Registry(1)
 - SkyNode (4), SIA (1)







Req.	AccessURL:	http://jvo.nao.ac.jp/skynode/services/SkyNodeForSXC use: full
Req.	Interface Type:	WebService 💌
Req.	Options for ParamHTTP:	The type of HTTP request: GET
Facili	ty Information:	
Opt.	Facility:	Select the previously registered facility, or fill in the Facility's Name below Name: Subaru Telescope. XMM-Newton ID:
Opt.	Instrument:	Select the previously registered instrument, or fill in the Instrument's Name below Name: SuprimeCam, EPIC ID:
Data (Coverage:	
Spatia	al Information	
Opt.	Spatial Coverage:	Select one of the options for Spatial Coverage and fill in relevant fields. Coordinate Frame: FK5 C All Sky Coverage is the entire sky. C Circle Region A central position and angular radius. Longitude: Latitude: Radius (degrees): C Coordinate Range A range of longitude and latitude (in degrees). Longitude: Min: 34.18935 Max: 34.8103

JVO Searchable Registry (1)

- · Currently internal use only.
- No OAI-PMH interface → not a publishing registry
- Register resource metadata and also table & column metadata from SkyNodes.
- Only the resources of which xsi:type is "OpenSkyNode", "SimpleImageAccess" or "Registry" are registered.
- · Native XML DB (Karearea SEC)
- · SOAP interface with Tomcat + AXIS

JVO Searchable Registry (2)

· Harvesting from the following publishing registry

- http://jvo.nao.ac.jp/cgi-bin/publishingRegistry/oai.pl
- http://nvo.stsci.edu/voregistry/oai.asp
- http://nvo.ncsa.uiuc.edu/cgi-bin/nvo/oai.pl
- http://hydra.star.le.ac.uk:8080/astrogrid-registry/OAIHandlerv0_10

· Interface

- Resource[] search(ADQL) (not implemented)
 Resource[] keywordSearch(keyword, orValue)

- Resource[] getResources()

 returns all the resource metadata
- Resource getResources(identifier)

 metadata of a specified service
- Resource getResourcesByTableName(authority, catalogName, tableName)
- Table[] getTables(serviceIdentifier)

For SkyNode Portal

- Column[] getColumns(serviceIdentifier, tableName)



Main usage

- User access through the JVO Portal.
 - Browsing, queried by the SQL editor
- Data service resolver for JVO SkyNode Portal.
 - Resolve Data Service Type (SkyNode or SIAP)
 → xsi:type of "Resource" is used
 - Resolve access interface (WebService or ParamHTTP) → xsi:type of "Resource/inteface"

Problem encountered in metadata exchange

- There were many "invalid-XML" in NVO registry as of 2005-Jan.
 - e.g. "NOT-DEFINED" string value at the attribute whose type is defined as "identifierURI"
- Non-standard resource type.
 - e.g. xsi:type="cea:CeaApplicationType"
 - currently these are ignored.

Summary

- Publishing Registry was constructed using NVO toolkit.
 - Stable implementation, working well.
- Searchable Registry was constructed using native XML DB.
 - Internal use only
 - We have implemented getKeyword.
 - search by ADQL is not implemented yet
 - native interfaces are defined and are used by the JVO Portal.