

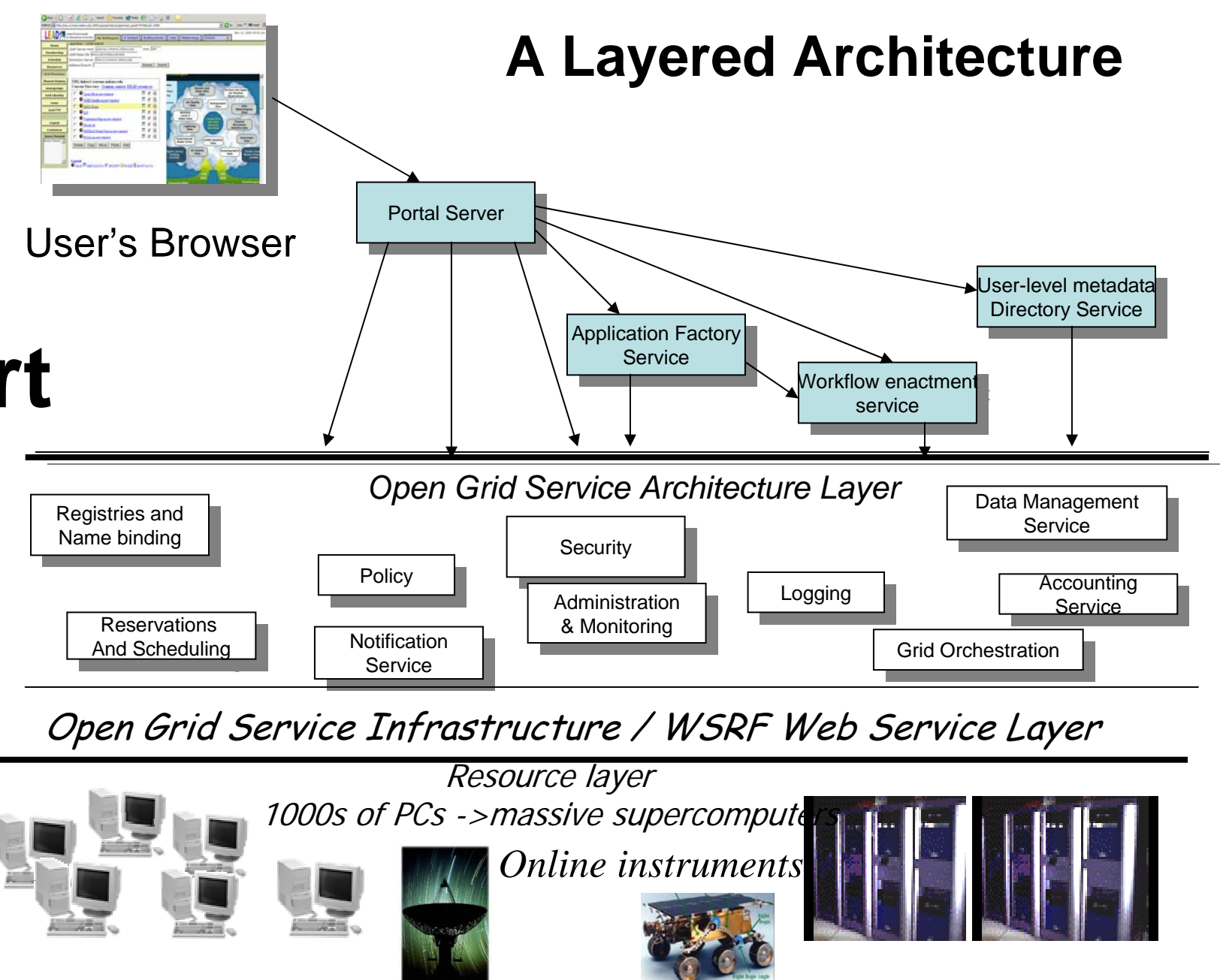
Project Goals

- To Build a portal framework for Users and Collaborations that allows
 - Easy access to standard Grid Services
 - Integration of arbitrary Grid-Service based applications
 - Tools to compose new applications from Grid and Web service components.
 - Tools to discover and search application metadata

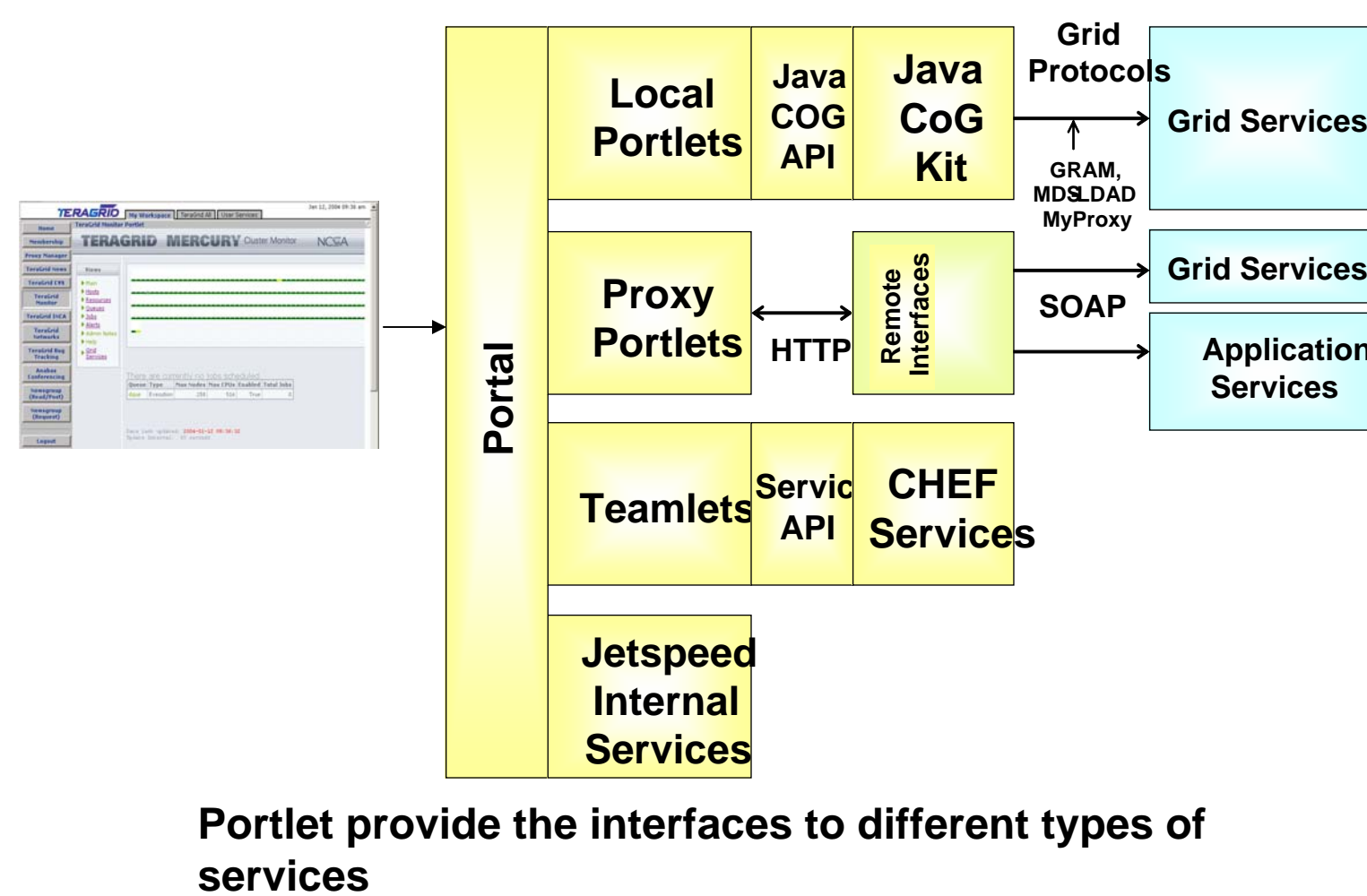


Middleware Technology to Support Science Portals: a Gateway to the Grid

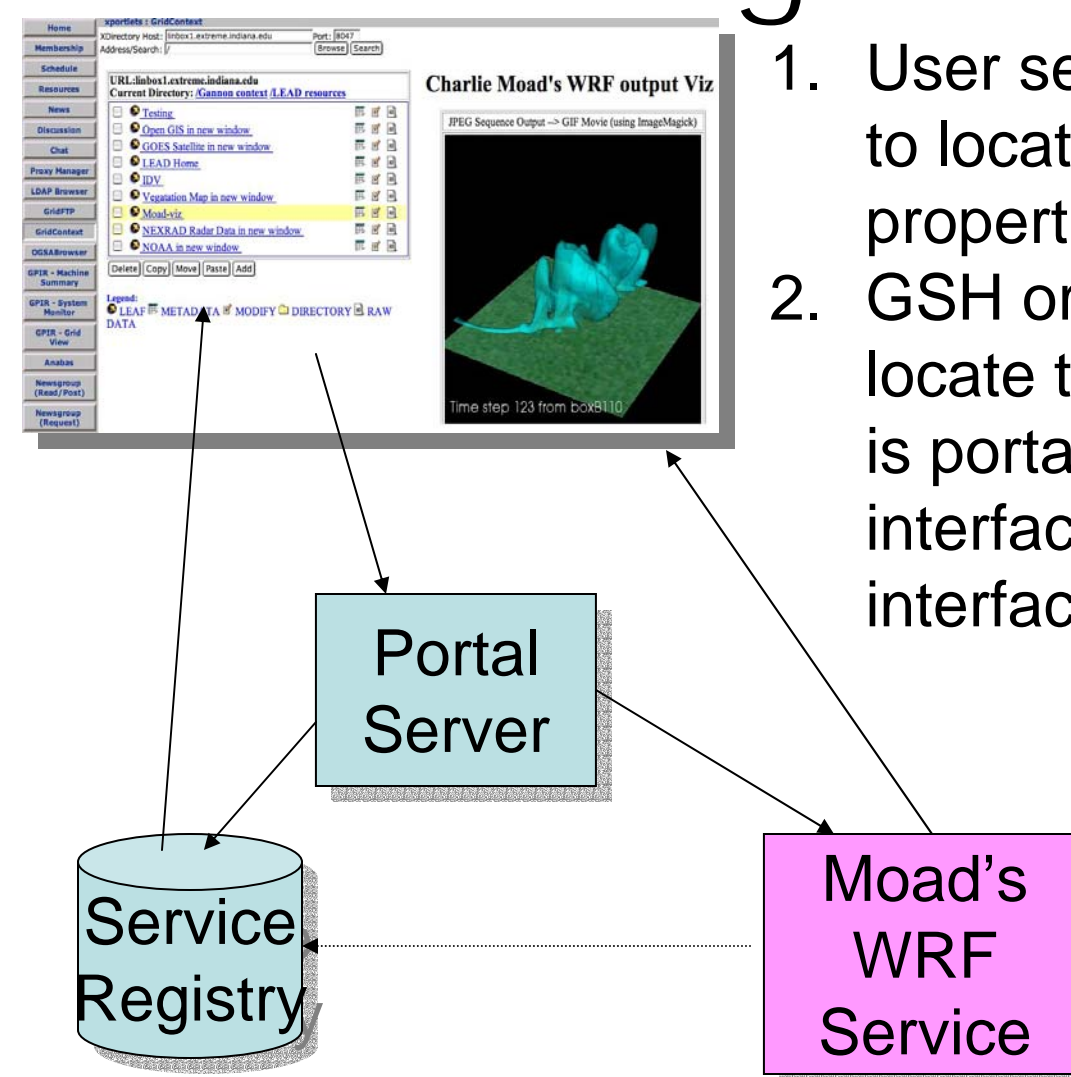
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Portal Organization



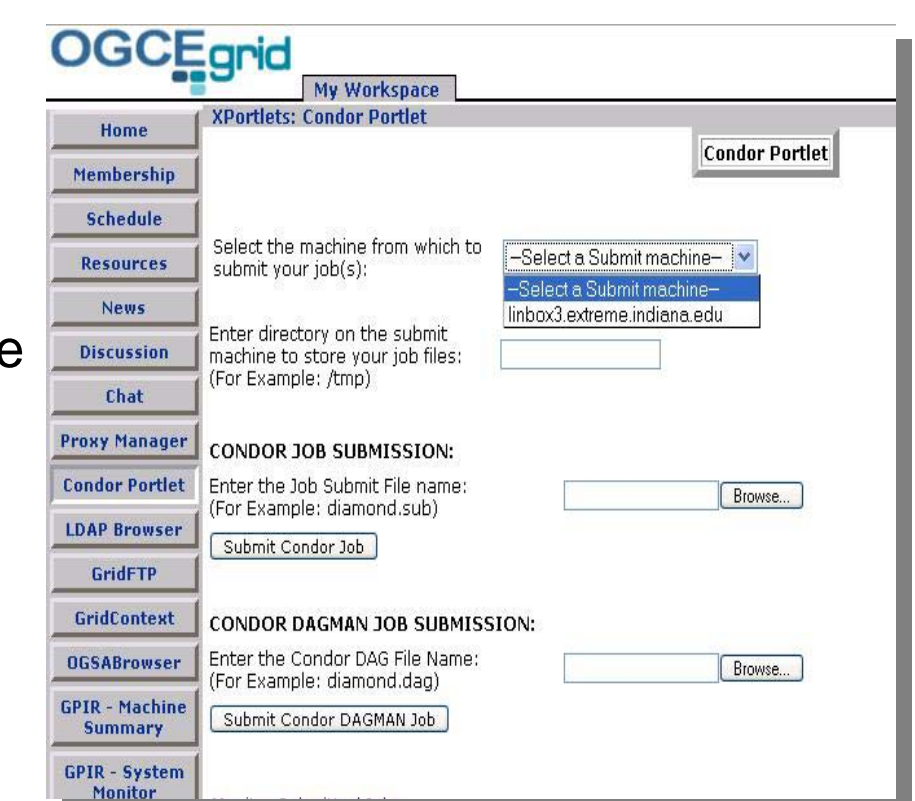
Key Idea: Automatic Grid Service Integration



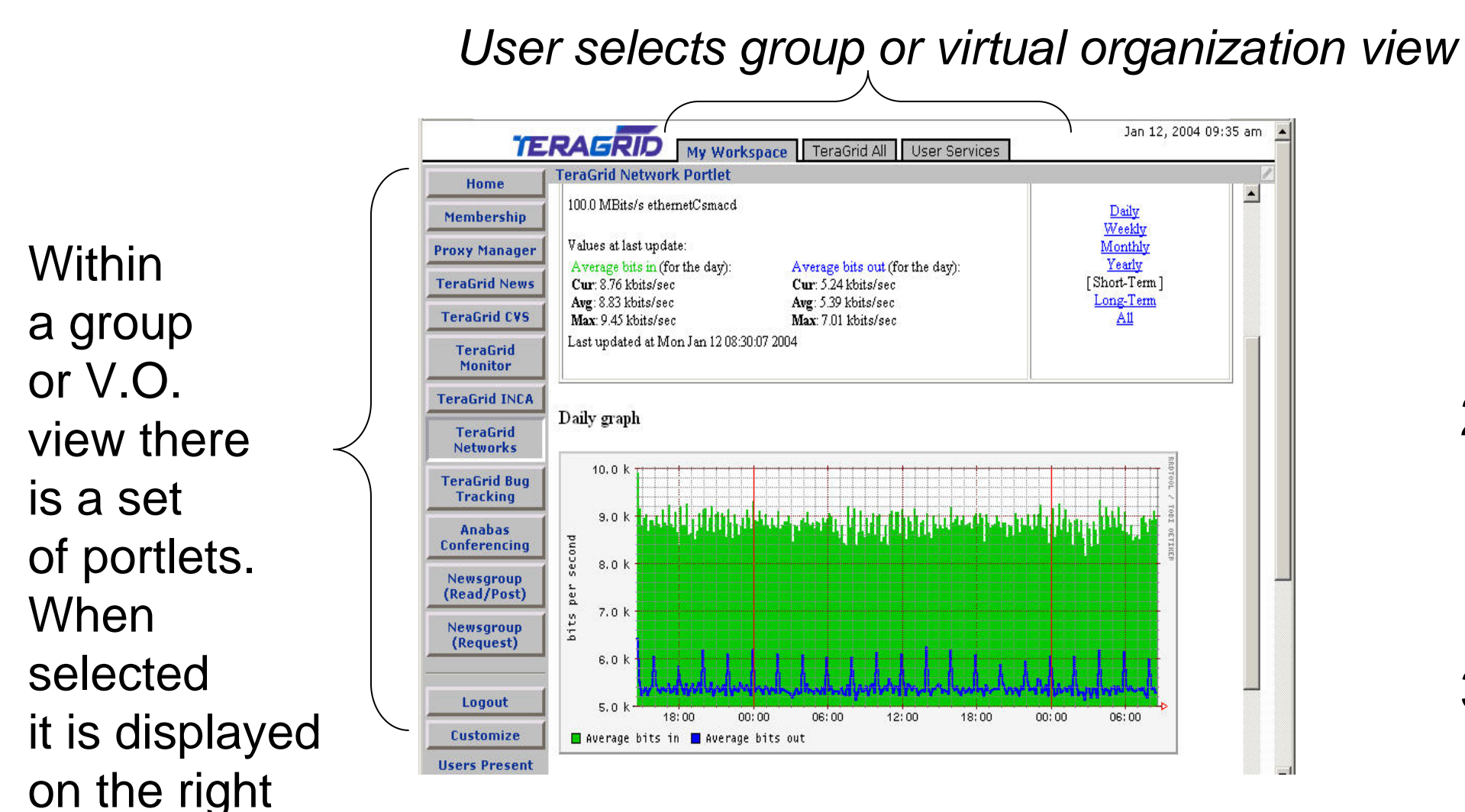
- User searches service registries to locate services with desired properties.
- GSH or WS-Address is used to locate the service. If the service is portal ready, directly load user interface into portal. If not, build interface on the fly from wsdl.

Managing Workflow

- Portlets exist to submit jobs to a condor web-service and monitor results
- BPEL4WS is web-service workflow standard. Interface is under development.
- CCA components can also be managed from the portal.

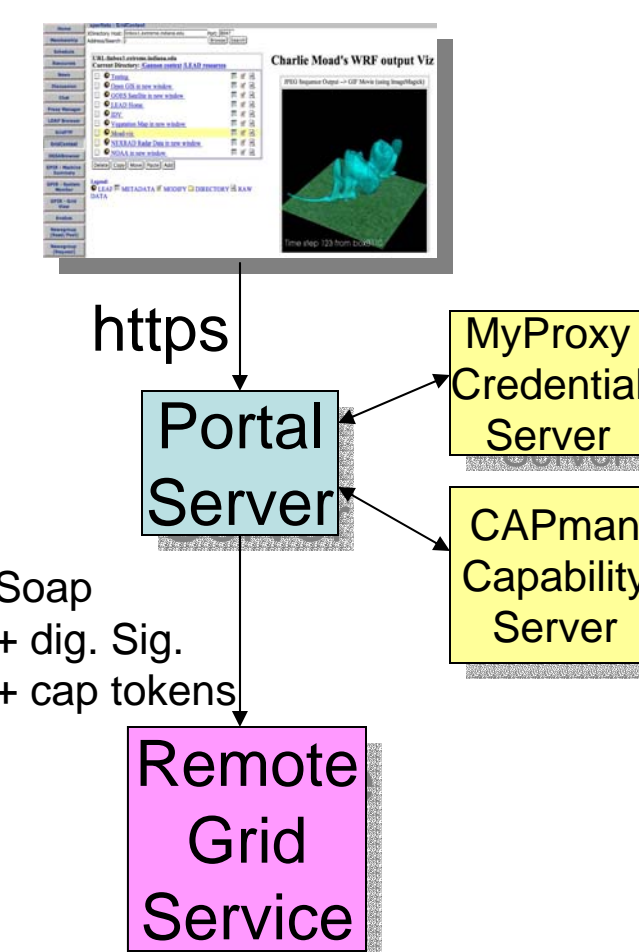


User's View of Portlet/Teamlet Portal



Portal Security

- Based on GSI for user proxy credentials
- WS-Security for access to remote services
- Capability tokens (SAML) for authorization



Science Portal Deployments in Collaboration with OGCE, DOE Fusion Portal, NCSA, NPACI/SDSC and others

