DOREGrid

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Outline

• Goal of DOREGrid Project
• What is DORE?
• Implementation Plan
• Demo
Goal of DOREGrid project

Goal:

– Develop a Grid Service that can integrate heterogeneous metadata systems.

– Provide a framework to exchange different xml documents (EAD, DC …) in “National Digital Archives Program”.

– Migrate DORE applications to GT3 enabled, and also have backward compatibility to existing system.
What is DORE

• DORE (DOcument REtrieval) is
  – A middleware
  – A library
  – A tool
  – for programmers to develop metadata database applications
Why GT3

GT3:
- Benefits of Grid Computing
- Web Service
- Open Architecture
Implementation Plan

Three stages

– Stage 1
  Integrate existing DORE applications with GT3 front end

– Stage 2
  Rebuild DORE to become a Grid service

– Stage 3
  Add security model in the framework and achieve inter-organizational data sharing with distributed authority
Stage 1
Integrate existing DORE applications with GT3 front end

- Client
- Client
- Client

interface

DOREGrid Factory

- DOREGrid Service Instance
- DOREGrid Service Instance

Existing DORE Applications (Academia Sinica)
Existing DORE Applications (Academia Historica)
Existing DORE Applications (National Palace Museum)

...
Stage 1

• Integrate existing DORE applications (backward compatibility)
• Could use any metadata standard
  – Dublin Core
  – EAD (Encoded Archival Description )
  – MARC (Machine Readable Cataloging)
  – …
• We have achieved this stage.
Stage 2
Rebuild DORE to become a Grid service

- Client
- DOREGrid Gate
  - DOREGrid Management Client
  - DORE GridService (Academia Historica)
  - DORE GridService (Academia Sinica)
  - DORE GridService (National Palace Museum)
Stage 2

- Rebuild DORE to become a Grid service.
- Deploy DOREGrid Service in organizations.
- Other organization could build their own client application to use this framework.
Stage 3

Add security model in the framework and achieve inter-organizational data sharing with distributed authority.
Stage 3

• Add CA authority in framework and achieve inter-organizational data sharing.
• Security management.
• Every organization has deployed full functional DOREGrid systems.
• Data share between organizations.
DEMO