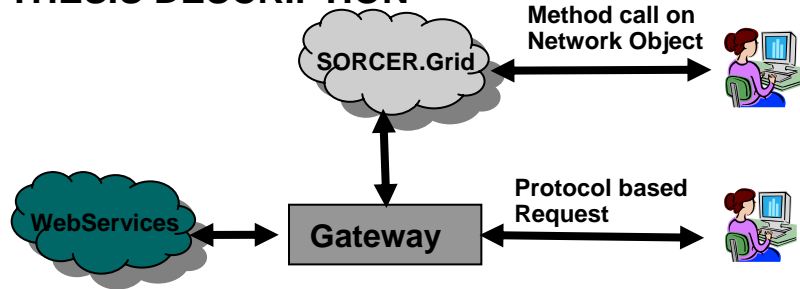


A Framework for Integrating SORCER with Web Services

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THESIS DESCRIPTION



Web services are protocol-based while SORCER service providers are object-oriented. Seamless integration framework is needed to make them coexist and complement each other in the same environment. This new computing environment allows web clients to access SORCER services as regular web-services and at the same time use them as regular SORCER providers for SORCER service requestors.

OBJECTIVE/APPROACH

Objective

- Make service-oriented programs execute in the grid environment as well as the web services environment
- Make a web service execute in web service environment as well as grid environment

Approach

- Develop a gateway routing requested web services to the grid environment
- Develop a gateway routing requests from service providers to web services

SCHEDULE

Proposal Presentation

March 12, 2004

Registering Providers [SORCER & Web] with UDDI

March 31, 2004

Gateway – Web Service Communication

April 10, 2004

Gateway – SORCER Service Provider Communication

April 15, 2004

Abstraction

May 10, 2004

Case Study with Demo

May 20, 2004

Thesis Defense

June 20, 2004

BENEFITS

1. Support for object-oriented service providers in web services environments
2. Ease of service-oriented programming for web services environments – SO programs created interactively by point-and-click
3. Reusing web services in the grid environments
4. Increased functionality of integrated grids with web services