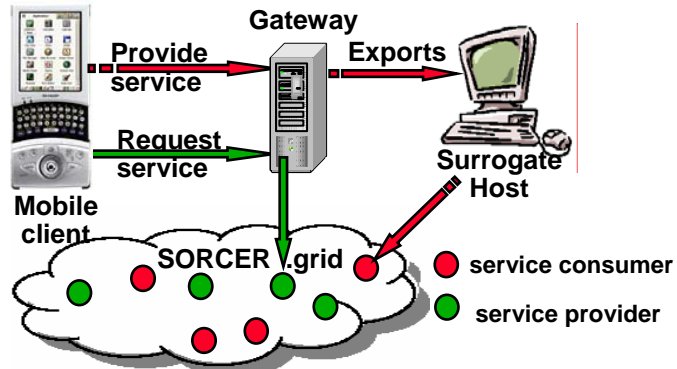


A Surrogate Framework for Personal Profile Devices

Mukundan Desikan

THESIS DESCRIPTION

Hypothesis: Mobile clients (PDAs) can participate in SORCER.grid network as fully “fledged citizens”.



OBJECTIVE/APPROACH

Solution:

- Provide a service gateway for mobile clients
 - that act as a service consumer from the SORCER.grid
- Develop a surrogate framework for mobile clients
 - that act as a service provider to the SORCER.grid

SCHEDULE

Key development milestones for 2004:

- | | |
|---------------------------------|----------|
| 1. Proposal Presentation | 02/12 |
| 2. Develop UI for mobile client | 03/19 |
| 3. Develop Gateway | 04/02 |
| 4. Develop surrogate | 04/20 |
| 5. Case Study with Demo | 05/25 |
| 6. Thesis Defense | by 06/01 |

MISCELLANEOUS SUPPORTING DATA

Benefits:

1. Distributed use of vast resources anywhere, anytime by PDAs
2. Resource constrained mobile devices can now act as both service provider and consumer in the SORCER grid
3. Provides a generic framework for integrating mobile clients with the SORCER grid
4. Secure, portable, scalable, and standards based grid computing for PDAs