Grid Programming Environment (GPE)

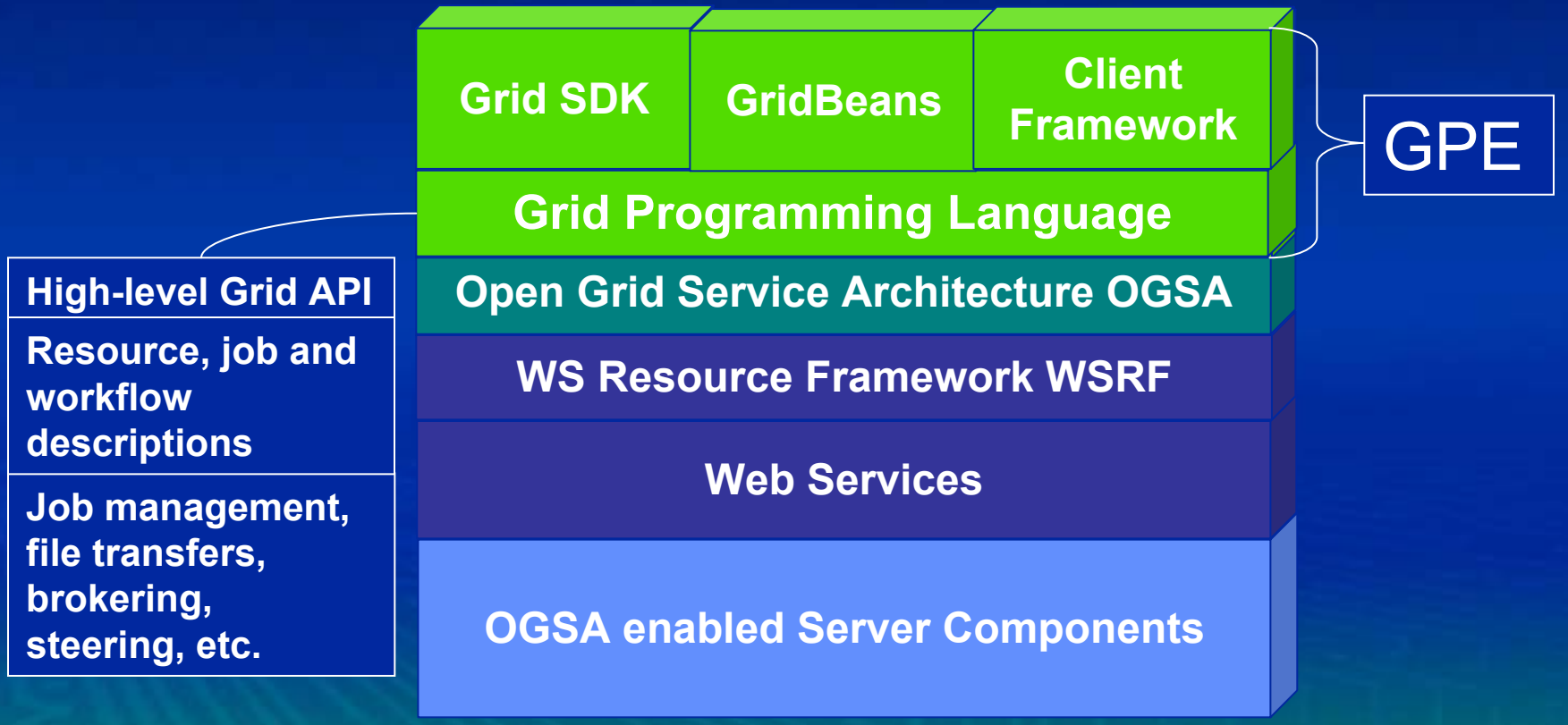
Grid Summer School, July 28, 2004

Ralf Ratering

Intel - Parallel and Distributed Solutions Division (PDSD)

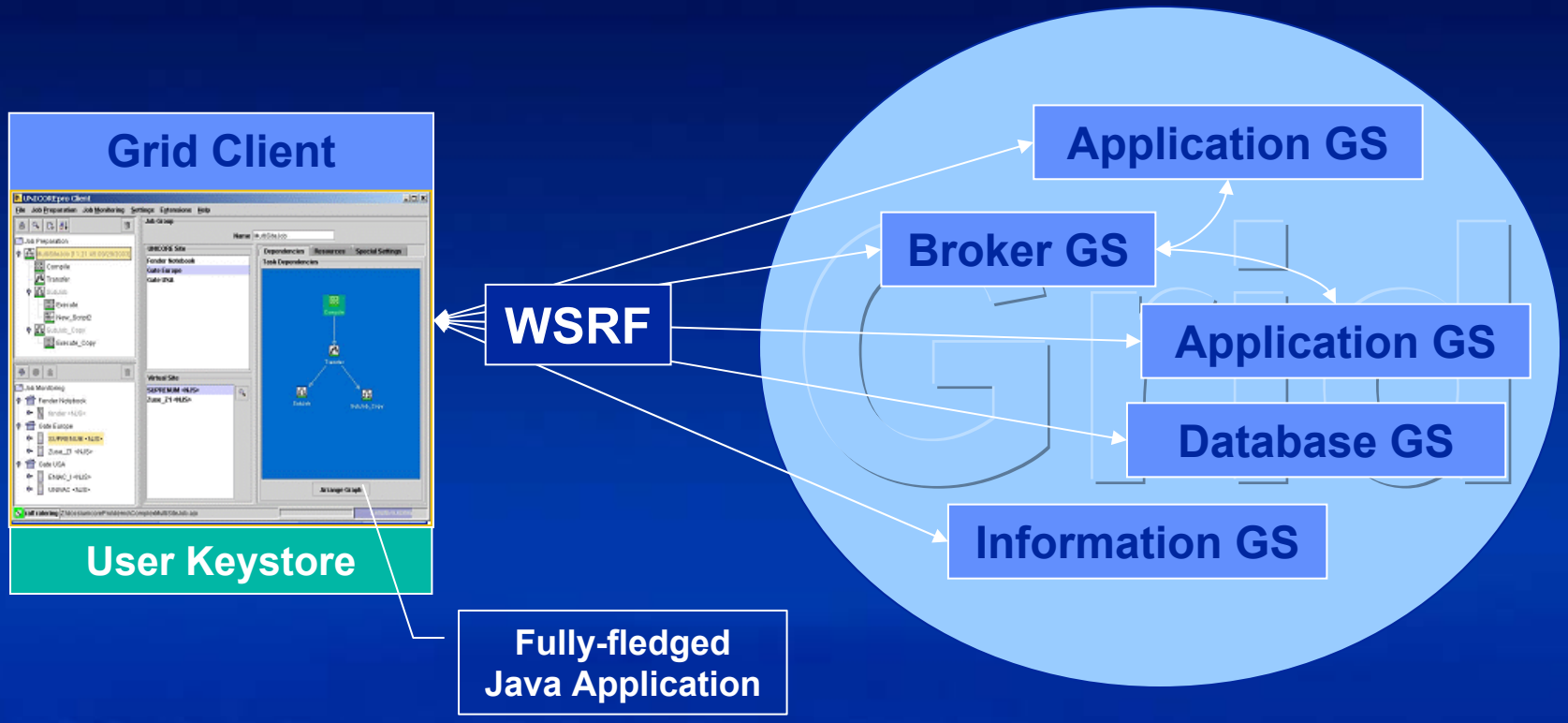
Grid Programming Environment (GPE)

Bringing applications to the Grid...



*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

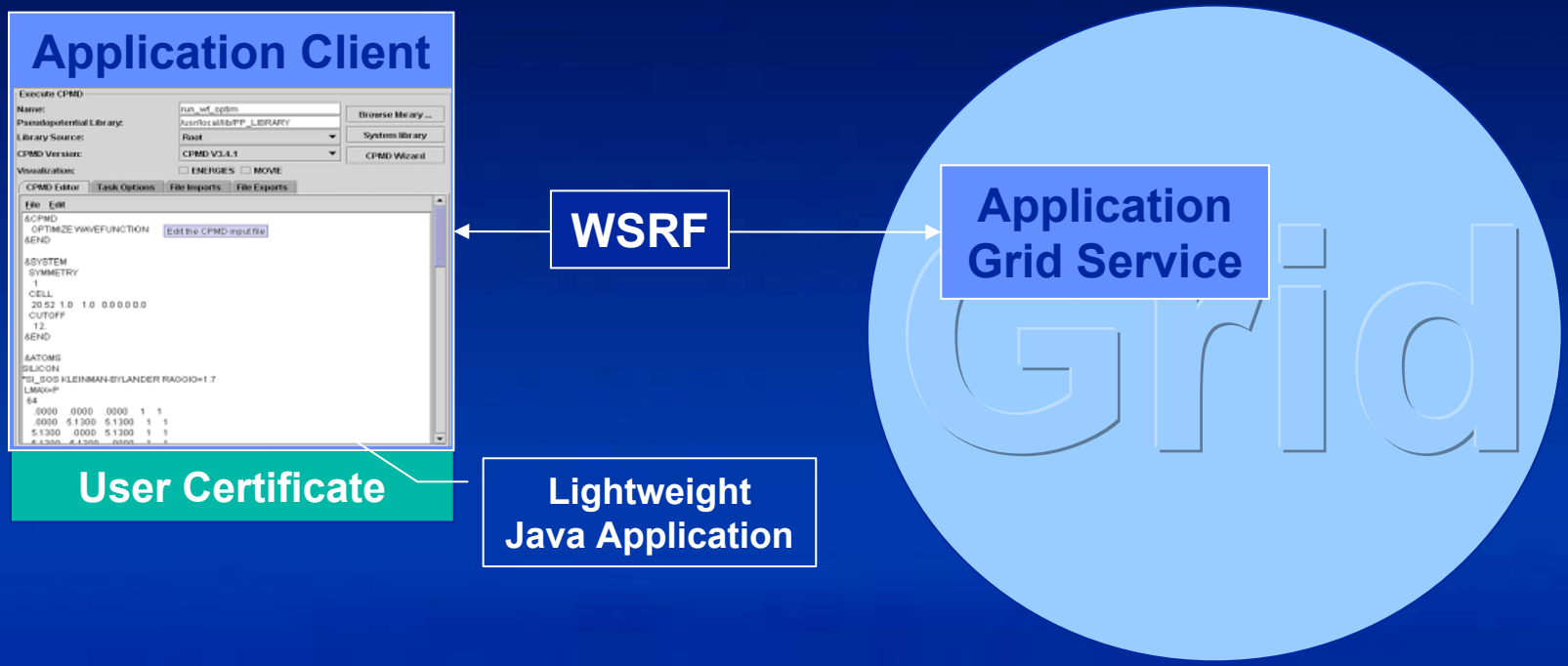
Use Case: Expert User



- Run multiple applications in complex workflows
- Get all information from the Grid
- Functionality as in old UNICORE Client

*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

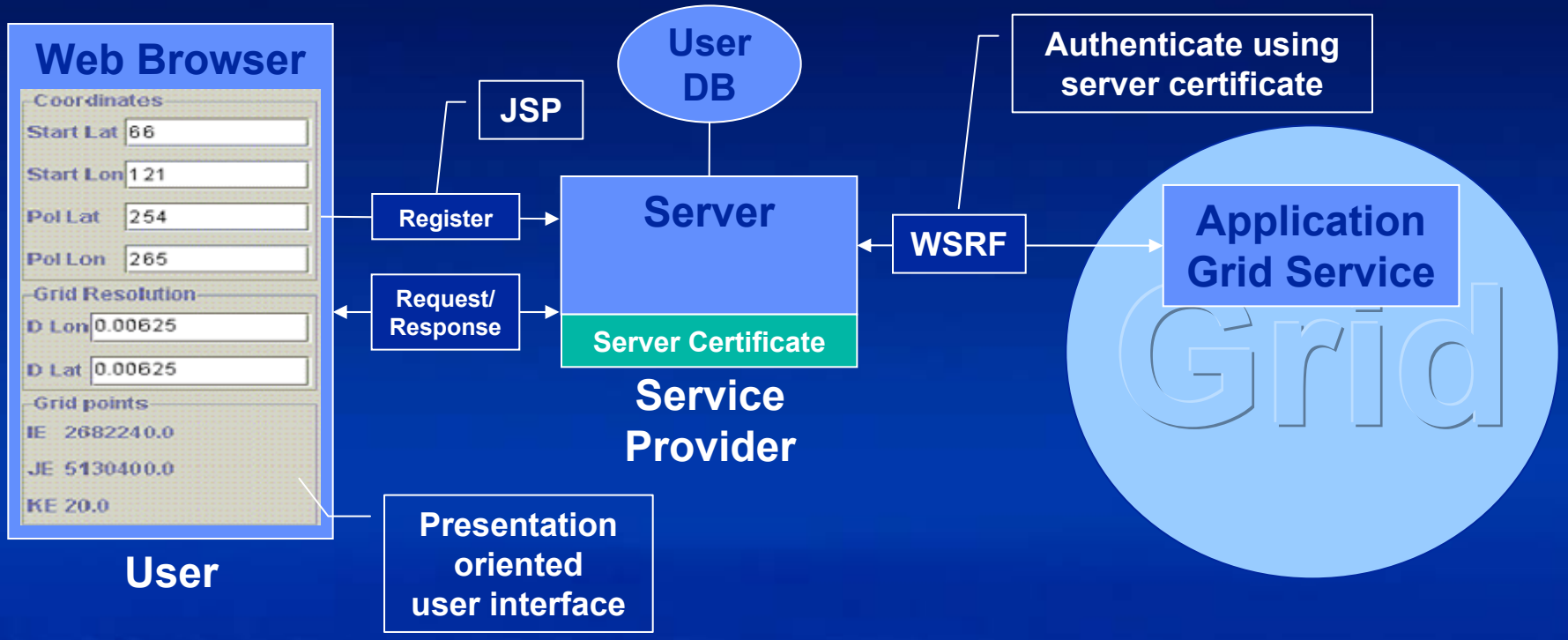
Use Case: Application User



- Only one application
- Get only application specific information
- Run lightweight client on mobile devices

*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

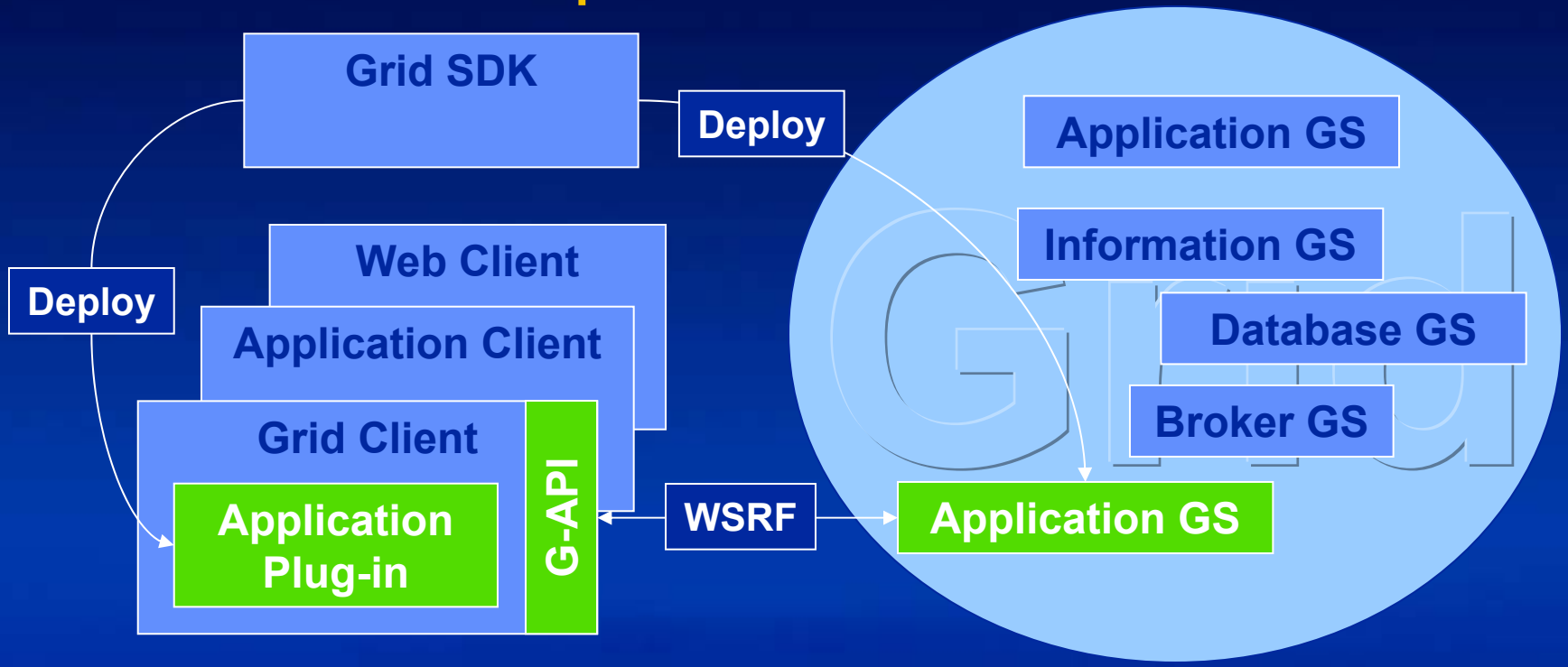
Use Case: Unaware User



- What is a "Grid"?
- Service provider offers a service on the web

*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

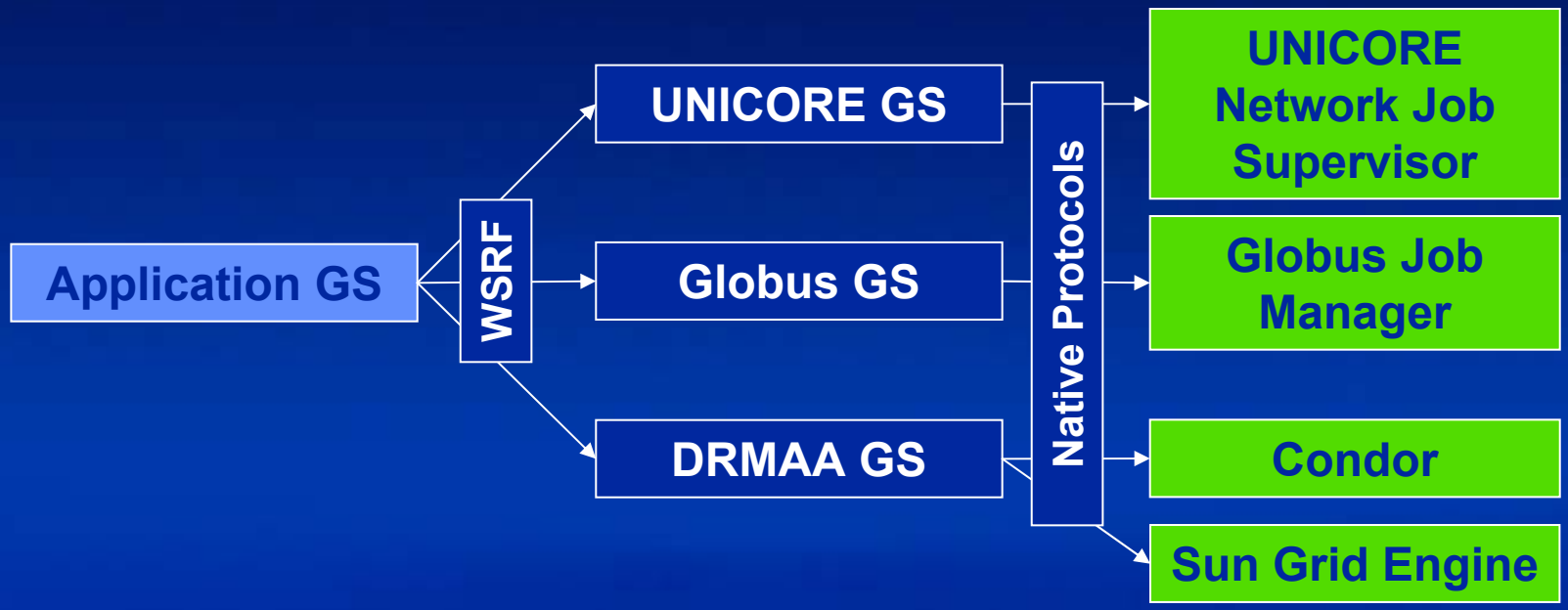
The Grid Developer



- GridBean = Grid Service + Client Plug-in
- Wrap existing applications
- Write new Grid applications
- Plug-in for Eclipse?

*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

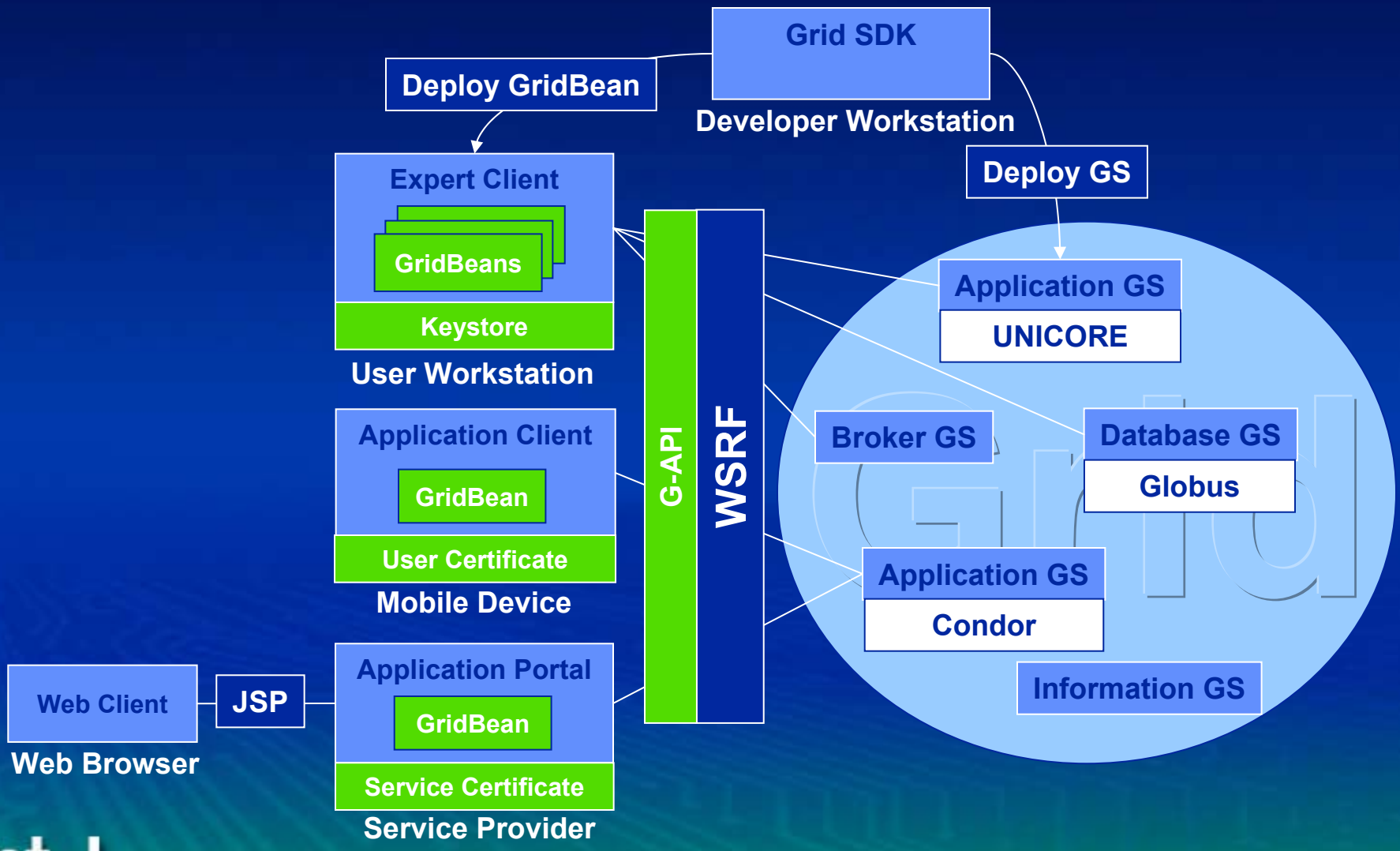
Grid Service Backends



- GPE will provide Grid services to wrap different server types

*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

GPE: The Big Picture…



*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.

GPE: Summary

- Proof of Concept implementation based on Globus Java CoG
- Integration with UNICORE services in UniGridS project
- GPE will enable developers to implement applications for the Grid

*Other brands and names are the property of their respective owners © Copyright 2004 Intel Corporation. All Rights Reserved.