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ANSA Phase III

Objects On the InterWeb Network

Youcef Laribi

Abstract

The business problem addressed is the seamless provision of computing and information services on the Internet

The technical problem created by that business problem is engineering large-scale CORBA services on the Internet

The solution being offered is a set of approaches in a form of focused ANSA projects that aim to enhance the WWW infrastructure using technologies like CORBA, Java, and Distributed Objects..

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Where the WWW is heading to?

- From an information base to a computing base.
- From vertical integration (user/service) to an horizontal one.
- From external networks to intranets.
- From one technology to a combination of many.



The Integration platform



ORACLE



The WWW is the PLATFORM



Why do we need CORBA then ?

- To combine different services in a useful and powerful way.
- Programming language and protocol independence.
- Bridges between different distributed platforms (OLE/COM, DCE, ...).
- Unifies desktop and enterprise computing.
- A continuous and evolving standard.

CORBA is the FRAMEWORK



ANSA is building the vision

- Exploring various aspects of engineering the CORBA framework on the WWW platform:
 - Modeling the WWW using a CORBA framework: **ANSAweb.**
 - Dynamic deployment of CORBA services on the WWW: **Jade.**
 - Building Workflow applications based on the WWW: **Quartz.**
 - Integrating third-party and legacy systems on the WWW: **Topaz.**



ANSAweb

- **Modeling the HTTP and CGI backends using CORBA IDL.**
- **Viewing WWW Documents as CORBA Objects named by URLs.**
- **Using CORBA IIOP as a more efficient transport replacement to HTTP.**
- **Preserving compatibility with existing browsers and web servers.**



Jade

- **Deploying CORBA services dynamically to web users.**
- **Using Java technology to make from any Java-enabled browser, a CORBA access point.**
- **Use Web Servers to distribute transparently GUIs for CORBA Services.**
- **Exploring the impact of “code mobility” on distributed applications design and deployment.**



Quartz

- Explore the use of the WWW for enterprise computing.
- Combine e-mail and the WWW to control and monitor the workflow processing.
- Use Jade as its underlying platform for distributing access to services.
- Build a reusable workflow toolkit that can be tailored for several workflow applications.



Topaz

- **A more efficient organization of WWW Servers.**
- **Extensible functionality.**
- **Integration of third-party applications on the backend.**
- **More flexible and configurable resource management.**

Summary

