



J A D E



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Latest evolutions in JADE technology

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Foundations

- Single platform / Single Build
- Build and run applications in the same framework
- Object oriented across all tiers
 - Presentation
 - Middle
 - Database
- Distributed computing platform for Windows & Red Hat / SuSE Linux
- Nodal architecture. Scale by adding additional nodes
- Limit the amount of communication with the Db server. Shared Transients?



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Key Features

- JADE removes object-relational impedance mismatch

"The object to relational mapping of objects in the upper 2 tiers constitutes for 33% of the development effort"

Martin Fowler

- JADE excels in managing complex, highly connected data, relationships and business rules
- Deep, hierarchical object structures and decision trees. Such as drilling down, traversing and validating a ship's cargo in a container management system.
- Cache management and locking provided for free by the technology
- Automatic cache coherency

Vision

- JADE will operate in 2 spaces:
 - End-to-end application development
 - Server-side processing with web services
- Interoperability
 - Web services
 - .net interoperability
 - Relational Population Service (RPS)
- 24x7 availability
 - Synchronised Database Service (SDS)
 - Versioning
 - Online scheme updates

Web Services

- Standardised EDI
- Supported by Oracle, Microsoft, IBM, Sun and HP
- COM/DCOM and Cobra are previous attempts at standardised messaging
- Technology agnostic
- Right technology for the right problem
- Promotes loose-coupling
- Fully supported by JADE
- Direct JADE-to-JADE web services in 6.1

Service Oriented Architecture (SOA)

- Not a technology
- A framework of policies and practices that provides an agile, service-based architecture
- Top of hype-cycle
- Closer alignment of business and IT
- Software developed under SOA should become more reusable and more strategically aligned to the requirements of the business
- Definition, registration, invocation and governance



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