NaradaBrokering

NaradaBrokering is an open source technology supporting a suite of capabilities for reliable, robust, and flexible messaging. This middleware infrastructure is designed around a scalable, distributed network of cooperating message routers and processors.

NaradaBrokering supports:
• Core Web and Grid capabilities
• High-performance Collaborative environments

Specifications within the Grid/Web Services area that are presently being implemented within NaradaBrokering include: WS-ReliableMessaging, WS-Reliability, WS-Eventing and WS-Notification.

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www.naradabrokering.org

Current Capabilities
• TCP, Parallel TCP streams, UDP, Multicast, SSL, HTTP & HTTPS transports supported
• Subscription Formats include: XPath, Regular Expressions, and SQL queries
• JMS compliant and support for routing P2P JXTA interactions
• Reliable and exactly-once delivery
• Ordered delivery
• Recovery and Replay after failures
• Message-level WS-Security compatible security
• Optimizations for large message payloads
• NaradaBrokering enhanced Grid-FTP and Bridge to the Globus Toolkit-3
• Prototype implementation of WS-ReliableMessaging

Forthcoming features
• Pausing and Replaying of Live streams
• Support for fault-tolerant replicated distributed stable storages

Applications using NaradaBrokering
• Shared Display for collaborative applications
• PDA cell phone integration with Grid sharing applications, whiteboard, audio/video and SVG
• Message-based MVC clients with SVG as example
• Collaborative PowerPoint and OpenOffice
• SERVOGrid Earthquake Prediction Grid
• Audio/Video Conferencing applications (GlobalMMCS)