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Enabling change at the speed of thought

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Message Driven SOA -- Enterprise Service Oriented Architecture

Advantages & Benefits of Fiorano ESB

Fiorano ESB combines peer-to-peer process containers along with centralized administration and control.

--- Atul Saini

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ADVANTAGES & BENEFITS OF FIORANO ESB

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Executive Summary

Fiorano ESB (Fiorano Enterprise Service Bus) SOP is a standards-based, peer-to-peer, services operating platform. It is the first platform that seamlessly combines concepts from programming languages, messaging and operating systems to facilitate the development and deployment of software services across the network. The architecture of this platform is ideally suited for implementing and deploying integration solutions based on Web Services.

Fiorano ESB offers the following compelling advantages over competing platforms:

Process Route Transparency

Current platforms used for application integration inherently require application components to have a priori knowledge of network and process routes. This lack of transparency results in 'rigid' process routes and, consequently, significant programming efforts to implement even simple process changes.

Fiorano ESB SOP is the industry's first platform to provide process route transparency within an integrated architecture. Fiorano ESB enables dynamic application composition by business users and provides developer grade tools to deployment engineers within the same integrated architecture. This platform allows the easy deployment of pre-built, pre-tested software services across a network.

Dynamic Process and Workflow Changes

Most existing integration platforms have serious problems in implementing business process and workflow changes. Executing processes have to be stopped to implement changes because most platforms lack run-time process monitoring and remote launching capabilities. These limitations complicate change management and result in higher implementation costs, longer deployment times and more expensive maintenance.

As the industry's first platform offering 'process route transparency', Fiorano ESB provides change management and deployment capability without any programming effort. Fiorano ESB provides 'coarse-grained' services that are ideally suited to easy change and replacement. Using external data routing to allow dynamic process changes at runtime critically distinguishes Fiorano ESB from other platforms, making it easy for applications to be modified on-the-fly by simple service replacement and/or addition.

Unconstrained Performance

Most platforms have a centralized hub (or server) architecture that suffers from inherent performance limitations. The centralized architecture forces all nodes to route data through a central hub, resulting in a network that has a capacity/performance constraint at the hub. These platforms evolved from intra-enterprise application integration and are ill suited for decentralized business processes – a fundamentally distributed problem.

Fiorano ESB SOP offers a fully distributed, Peer-to-Peer, event-based architecture to build services that can participate in a distributed application. Fiorano ESB combines peer-to-peer process containers (for speed and reliability) along with centralized administration and control (for scalability). Data flows directly between peers leading to massive performance improvements as the number of network nodes increase.

Remote Deployment and Management

Other platforms do not allow services to be deployed and launched remotely. While most of the current EAI platforms provide business process modeling (BPM) tools none of these platforms provide an effective deployment methodology for the modeled business process.

Fiorano ESB SOP allows business processes to be deployed across the network instantly and significantly reduces deployment costs over central-server architected platforms. Fiorano ESB allows

software services to be dynamically installed and launched over the network, leading to significant reductions in the time and costs of deploying distributed business processes.

Integrated Monitoring, Tracing and Logging

Other EAI platforms provide minimal support for process Monitoring, Logging and Tracing because of a fragmented architecture. The Monitoring tools are separated from the workflow and messaging system. These solutions are a collection of software applications rather than an integrated, purpose engineered, integrated infrastructure platform for distributed applications.

Fiorano ESB SOP is specifically engineered for distributed applications with platform-level support for Monitoring, Tracing and Logging. Services are monitored in real-time over the network and the platform supports remote tracing and logging as well. Fiorano ESB platform allows for real-time monitoring of properties specific to the service.

About Fiorano Software

Fiorano Software (www.fiorano.com) is a leading provider of enterprise class business process integration and messaging infrastructure technology. Fiorano's network-centric solutions set a new paradigm in ROI, performance, interoperability and scalability. Global leaders including Fortune 500 companies such as Boeing, British Telecom, Credit Agricole Titres, Lockheed Martin, NASA, POSCO, Qwest Communications, Schlumberger and Vodafone among others have used Fiorano technology to deploy their enterprise nervous systems.