CORDYS

PRODUCT BROCHURE

Cordys SOA Grid

Aligning SOA with BPM to Achieve Business Agility
THE SOA APPROACH

A Service-Oriented Architecture (SOA) offers a new approach to business design and plays a fundamental role in the development of an agile enterprise – one that supports improved speed, cost and quality. SOA enables the sharing of business capabilities, ensuring that they can be applied in various business contexts. This allows organizations to achieve economies of scale and consistency of operations and control. From an information technology perspective, a SOA led approach enables the effective management of complex IT assets – systems, applications and databases – making them easier to re-use, integrate and evolve without any disruption to the business solutions that use them.

Business Process Management (BPM) orchestrates other IT systems such as existing databases, legacy systems and packaged solutions, to create flexible end-to-end business processes. SOA enables the agility required for BPM by presenting modular and loosely coupled services that wrap the underlying IT infrastructure using industry standard interfaces such as WSDL, SOAP and XML.

“*We have made the Enterprise Integration layer the center piece of the IT organization, and we have had tremendous success with that.*”

- Aniruddha Paul, VP & Head of IT Change Delivery, ING Vysya

CORDYS SOA GRID

*How Cordys SOA Grid contributes*

At the heart of the Cordys SOA Grid is an enterprise-ready, Enterprise service on a bus, with the associated benefits of granular failover and scalability. To achieve near-linear scalability, the Cordys SOA Grid provides self-optimizing load management and fully distributed deployment of all services on a grid of commodity blades. A robust, highavailability framework allows non-stop execution of business processes.

Diagram 1: Cordys SOA Grid
CORDYS ESB FEATURES

Cordys ESB features a standards-based Web services architecture, which is a superior method for achieving complete interoperability among different systems. By contrast, many ESB vendors use the Java Message Service (JMS), rather than the Web services (WSDL, SOAP, and UDDI). The distributed nature of the ESB architecture makes Cordys more scalable and available.

Unlike a hub-and-spoke architecture, Cordys ESB does not have a central hub, which eliminates single point of failure and removes a common performance bottleneck. In a hub-and-spoke architecture, all backend systems (spokes) rely on the hub to communicate with each other and any hub failure causes the entire integrated system to fall over. In addition, any backend systems can potentially overload the hub, making it necessary to augment the hub with additional computing power. However, using the Cordys ESB, additional computing power can be applied where it is truly needed, on specific backend systems that exhibit higher workload.

Cordys ESB, with its superior middleware capabilities, is complemented by a number of components to form the Cordys SOA Grid offering, providing a robust platform for building composite applications, coupled with efficient system administration and management capabilities:

- Cordys Gateway serves as an entry point for clients accessing Cordys services over the internet, making the enterprise applications hosted on Cordys available beyond the firewall
- Cordys Connectivity framework enables organizations to connect to their existing enterprise assets (such as databases, packaged applications, legacy systems, FTP servers and email servers), reusing them in new composite applications
- Cordys Services framework enables developers to create and manage the service life-cycle on the Cordys SOA Grid. Organizations can employ a wide range of communication and messaging protocols to access services deployed on the SOA Grid
- Cordys Application Deployment framework provides robust capabilities for packaging and deploying applications in a variety of deployment styles including support for single server instances and clustered models in between demilitarized zones, as well as in private or public hosted environments

WHY CORDYS SOA GRID?

Cordys SOA Grid, with its robust capabilities, is uniquely positioned to quickly deliver benefits to a broad range of organizations, by leveraging existing IT assets as services.

This provides a framework for true business agility, enabling enterprises to adapt rapidly to changing business needs and substantially lowering the total cost of ownership. The SOA Grid is a feature-rich, easy-to-use environment, which is built on a near linear scalable architecture.

Cordys BOP offers a complete solution for any business seeking to create a flexible, process-oriented enterprise by combining the business process components with a Service-Oriented Architecture (SOA), Business Process Modeling (BPM), Business Activity Monitoring (BAM), and composite application development/deployment into a single unified environment.

Diagram 2: Process Flows with Cordys Clusters

- Cordys Single Sign On (SSO) delivers full support for single sign on (SSO) using SAML 1.1 to provide seamless access to software assets across trusted domains with a single identity
Cordys is a global cloud platform software provider that helps businesses move to the cloud quickly and with minimal risk. The Cordys platform combines Platform as a Service, enterprise application development, a complete Business Process Management Suite (BPMS) and the next generation of high productivity middleware. Global 2000 enterprises choose this analyst-recognised platform to improve their business operations, deliver better customer service and release additional value from existing IT. Service providers implement the platform to leverage cloud business opportunities, create new high value products and services in the cloud and reduce cost while driving innovation. Headquartered in the Netherlands, Cordys has offices in the Americas, EMEA and Asia-Pacific.

For more information on Cordys please visit http://www.cordys.com.