Does your SOA pass the test?

As a business leader, you most likely know how difficult it is to make new and existing applications and services interoperate with one another – especially when they run on a mix of diverse application servers.

How can you implement a service oriented architecture (SOA) solution that takes full advantage of appropriate technology and best practices, one that will help you meet future changes and demands?

Smart SOA approach

Pursuing SOA in an ad hoc, scattered manner can drastically reduce its benefits. Fortunately, there is a smarter approach: We can learn from the thousands of clients who have chosen IBM for their SOA deployments. IBM has solidified the best practices and lessons learned from these experiences to help extend the value of SOA deployments through what we call the *Smart SOA™* approach.

Think flexible. Think responsive.

Smart SOA solutions starts with an enterprise service bus (ESB) that solves your immediate challenges in a straightforward way while, at the same time, deploying a flexible and dynamic infrastructure that allows your IT to support your business needs as they change.

Defining ESB

An *enterprise service bus* is a flexible connectivity infrastructure for integrating applications and services. An ESB can power your SOA by reducing the number, size and complexity of interfaces among your applications and services. It enables flexibility and responsiveness, so that you can change or add services without an impact on your existing services.

What can an ESB do for you?

a. Route messages between services
b. Convert transport protocols between requestor and service
c. Transform message formats between requestor and service
d. Handle business events from disparate sources

(Answer: All of the above)

Make the right choice: IBM ESB portfolio

Get the most value from your ESB. IBM delivers a complete range of ESB solutions, from platform-based to platform-neutral to hardware-based. Select the best ESB to meet your individual requirements — and power your SOA.

IBM

IBM ESB portfolio: The Smart SOA approach starts here

WebSphere Enterprise Service Bus

IBM WebSphere® Enterprise Service Bus is optimized to work with IBM WebSphere Application server for an integrated SOA platform.

When to use it

- *You use IBM WebSphere Application Server or have skills in WebSphere Application Server administration and Java™ coding.*
- *You're developing or planning to develop business processes using IBM WebSphere Process Server. WebSphere Enterprise Service Bus and WebSphere Process Server have common tooling, programming models and runtime environments.*
- *You're integrating with independent software vendor (ISV) business applications hosted on WebSphere Application Server or third-party solutions that extend and support WebSphere Application Server.*
- *You're focused on standards-based interactions using XML, SOAP, Java, Java Enterprise Edition (JEE) and Web services. You want to develop and compose applications with a platform built upon open specifications and standards for SOA, including Java Enterprise and Service Component Architecture (SCA).*
- *You want to mediate between Web services and existing systems using Java Message Service (JMS), IBM WebSphere MQ and WebSphere adapters.*
- *You want reliability and extensive transactional support with availability and scalability.*
- *You want optimized qualities of service for integration among WebSphere services and WebSphere Enterprise Service Bus in one application server.*

Learn more

For more information about WebSphere Enterprise Service Bus, visit: **ibm.com**/software/integration/wsesb/

WebSphere Message Broker

IBM WebSphere Message Broker is built for universal connectivity and transformation across heterogeneous IT environments.

When to use it

- *You're using WebSphere Message Broker but would like to extend existing application integration solutions to SOA and related standards.*
- *You want to extend your Web services support using the WS-Security and WS-Addressing standards.*
- *You have extensive heterogeneous infrastructures, including both standards -and nonstandards-based applications, protocols and data formats.*
- *You have extensive WebSphere MQ skills and infrastructure.*
- *You're implementing a wide range of advanced messaging and integration patterns, including complex event processing.*
- *You need extensive, prebuilt mediation support for ease of use and time to benefit for developing solutions for sophisticated integration patterns.*
- *You have complex transformation needs.*
- *You want reliability and and extensive transactional support with availability and scalability.*
- *You have large files to process.*
- *You need to deploy and interact with other ESBs as a remote host.*
- *You need to integrate with other applications through IBM WebSphere Adapters.*
- *You need to achieve high-performance with horizontal and vertical scaling.*

Learn more

For more information about WebSphere Message Broker, visit: **ibm.com**/software/integration/wbimessagebroker/

WebSphere DataPower Integration Appliance XI50

IBM WebSphere DataPower® Integration Appliance XI50 is purpose-built hardware for simplified deployment and hardened security.

When to use it

- *Ease of use is a predominant consideration.*
- *A simple experience of drop-in installation and administration-based configuration with no or minimal development is required.*
- *Security policy and service level agreement (SLA)-management is required for Web services management.*
- *You are transforming between XML and XML, or between XML and any other format.*
- *You require advanced Web services standard support, including WS-Security, XACML, WS-Policy and WS-SecurityPolicy, SAML and WSDM.*
- *You need to minimize message latency when adding an ESB layer.*
- *You are doing extensive XML processing and/or security processing combined with high-performance requirements.*
- *You are looking to easily integrate with existing firewalls, security gateways and policy management.*

Learn more

For more information about WebSphere DataPower Integration Appliance XI50, visit: **ibm.com**/software/integration/datapower/xi50/