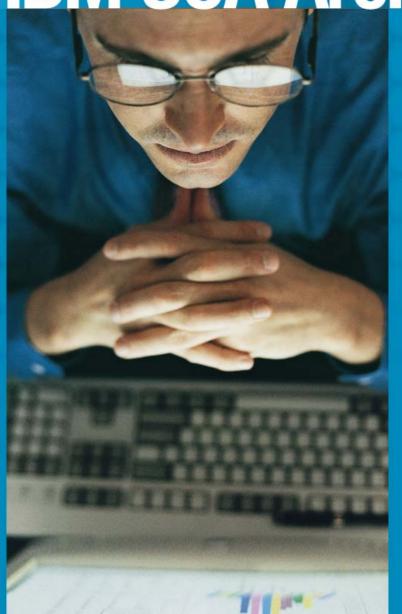
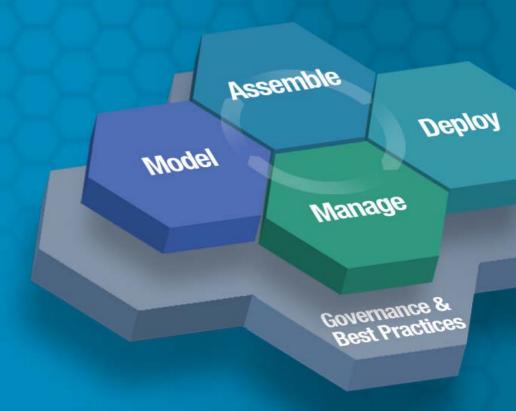
IBM SOA Architect Summit





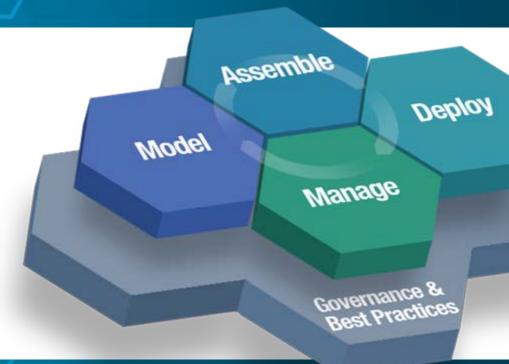
SOA on your terms and our expertise



IBM SOA Architect Summit

Deploy: The SOA Operating Environment

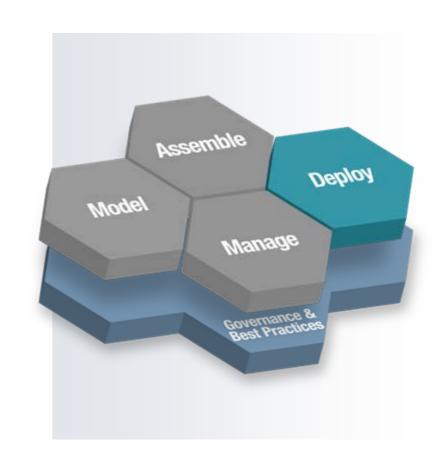
> A Presentation for the Enterprise Architect





Agenda

- SOA Operating Environment Requirements
 - What is unique about an SOA Operating Environment?
- SOA Operating Environment Key Principles
- Mapping to the IBM Products





SOA Brings New Operating Environment Requirements

Model

Assemble

Deploy

Manage







"What new capabilities do I need to deploy SOA solutions?

"How can I manage the flexible work load, while keeping the SLA?"

"Some of our services are used by our partners. Where do I place them in the Operating Environment?"

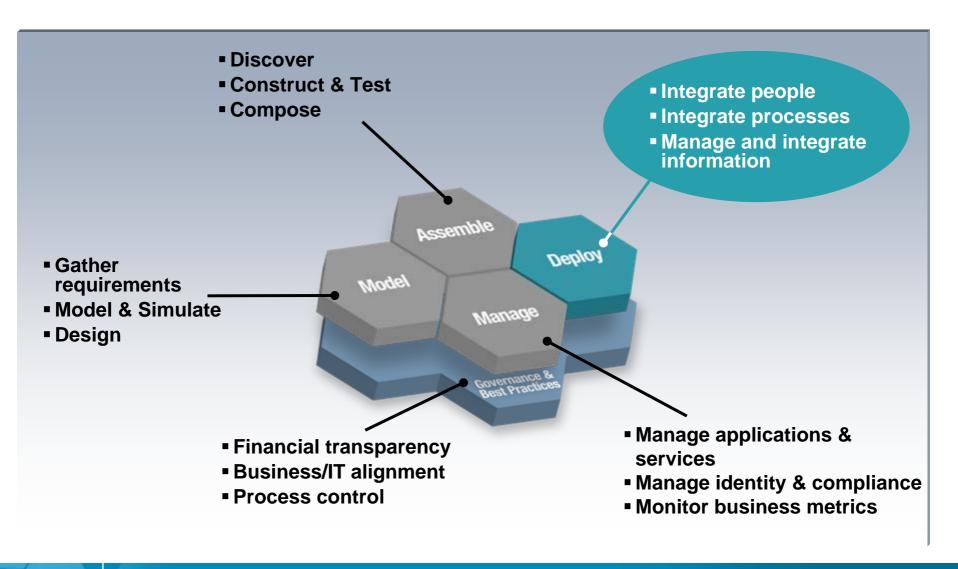
"What capabilities do I need to effectively reuse existing assets?

"Why do I need an ESB? How is it different from EAI?"

"Do I need a registry / repository infrastructure? What is it?"



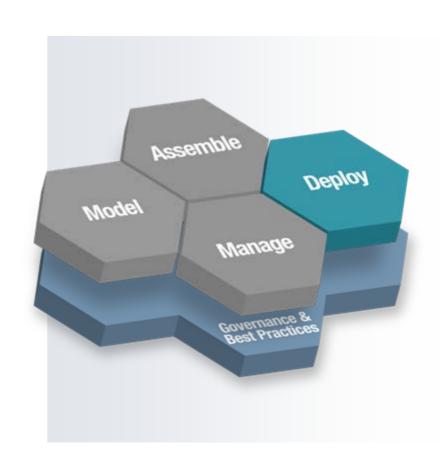
The SOA Lifecycle





Agenda

- SOA Operating Environment Requirements
- SOA Operating Environment Key Principles
 - Separation of Concerns
 - Loose Coupling
 - Composite Applications
 - Quality of Service
- Mapping to the IBM Products

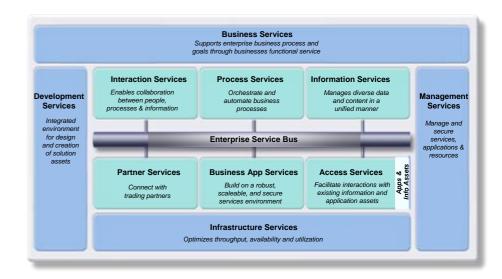




IBM's SOA Reference Architecture

Key Principles for IT Flexibility

- Open Standards
- Linkage between business and IT
- Component based programming and solution development
- Separation of Concerns
- Connectivity and Loose Coupling
- Composite Applications
- **Quality of Service**
- Business and IT level monitoring and management

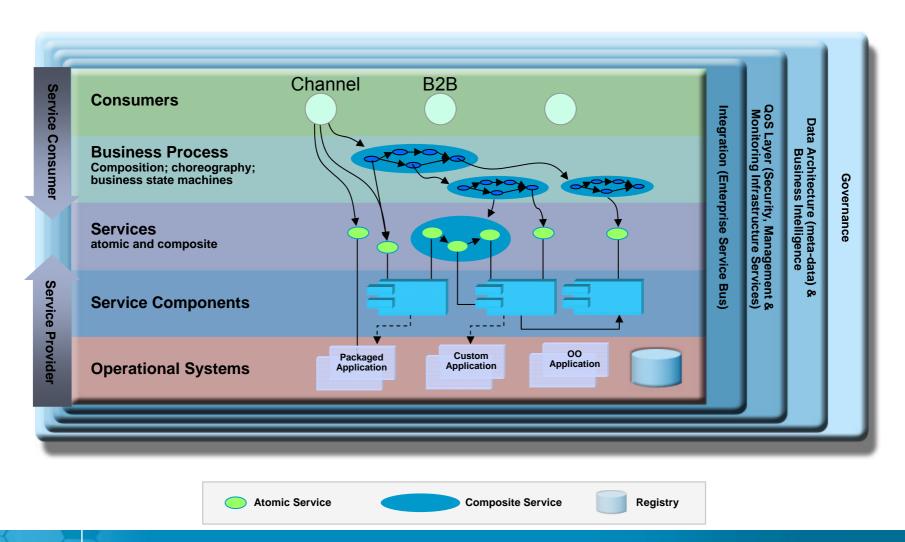


The IBM SOA Reference Architecture provides the level of IT flexibility required to meet the demands of business



SOA Solution Layers

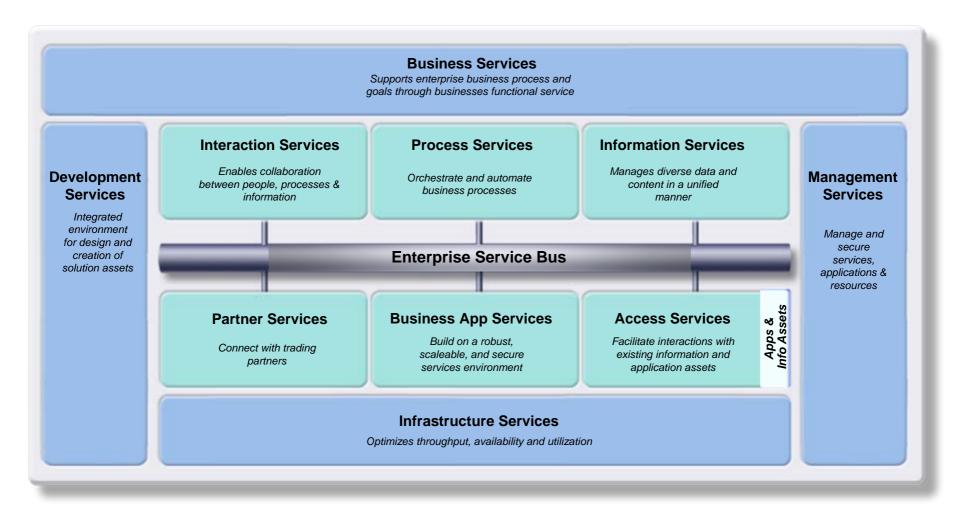
Layers Connecting the Service Consumers and Providers



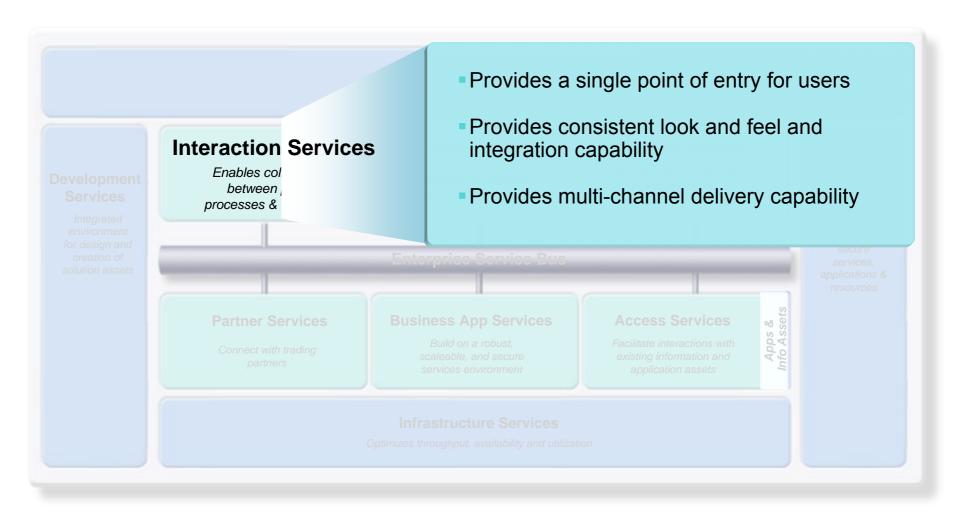


SOA Reference Architecture

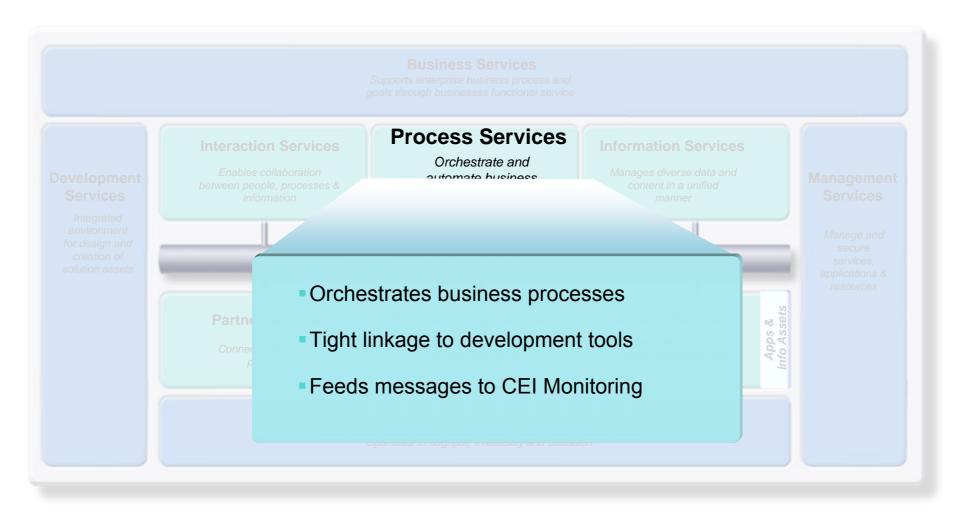
Supporting the SOA Lifecycle



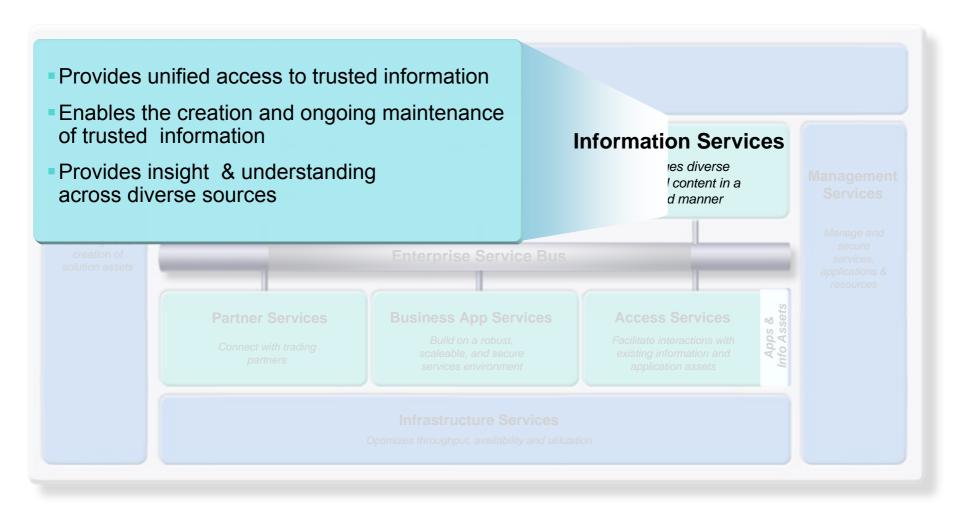




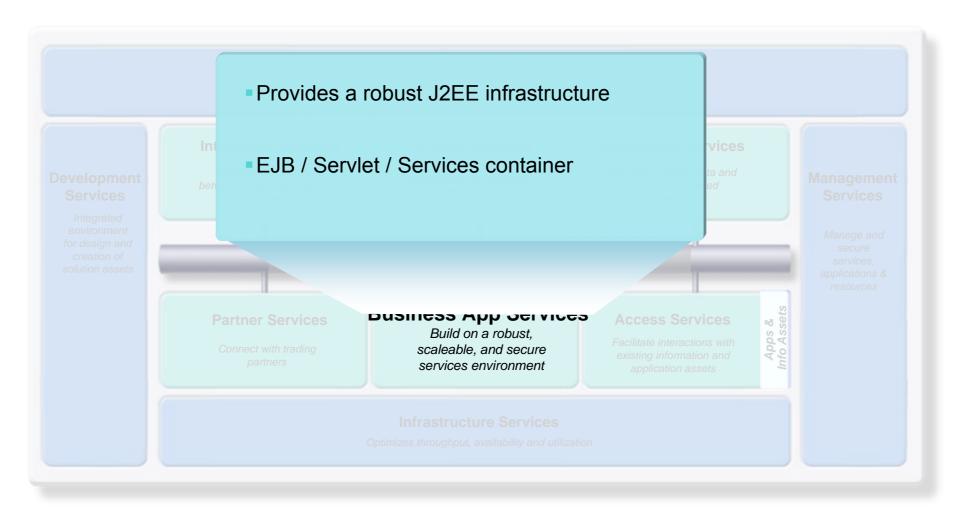




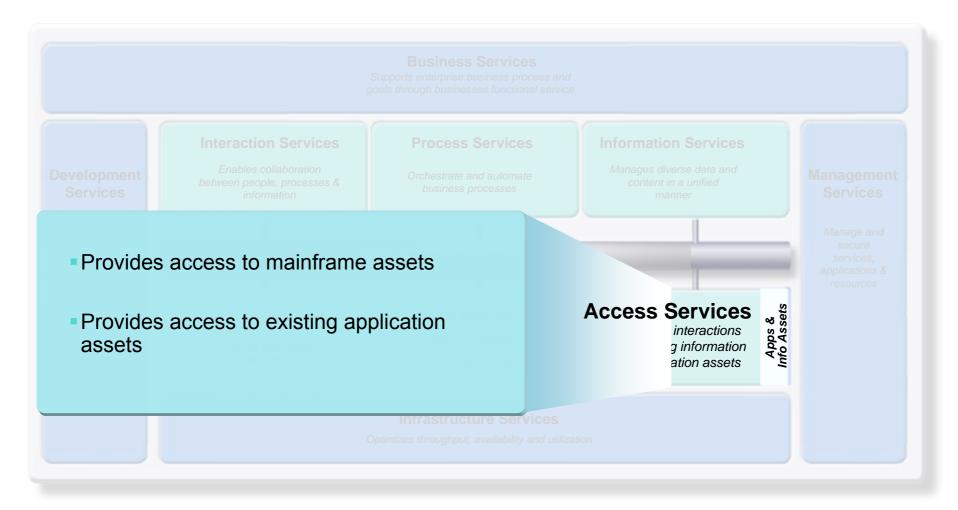




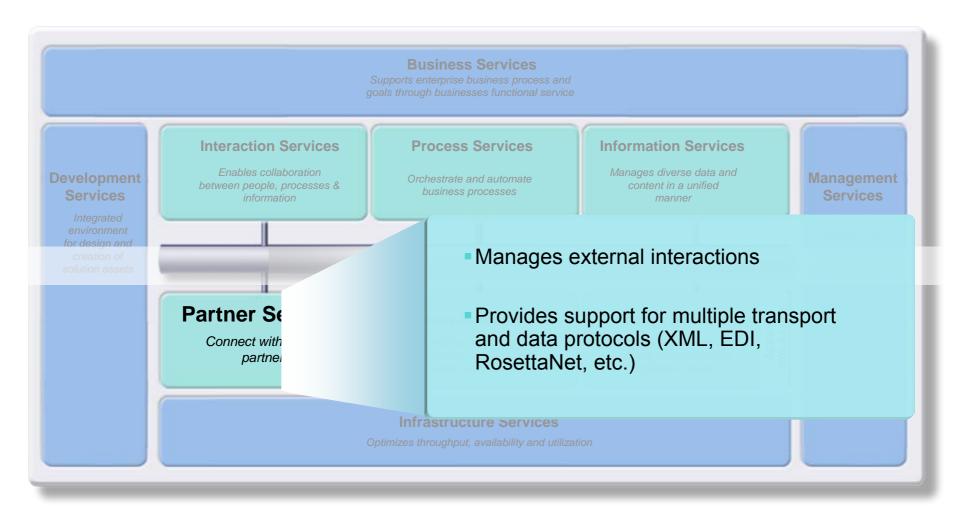




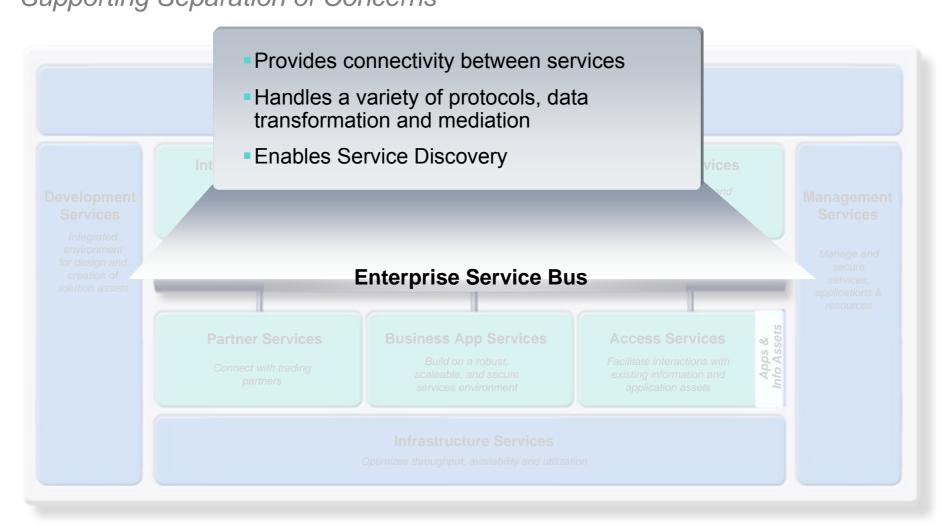




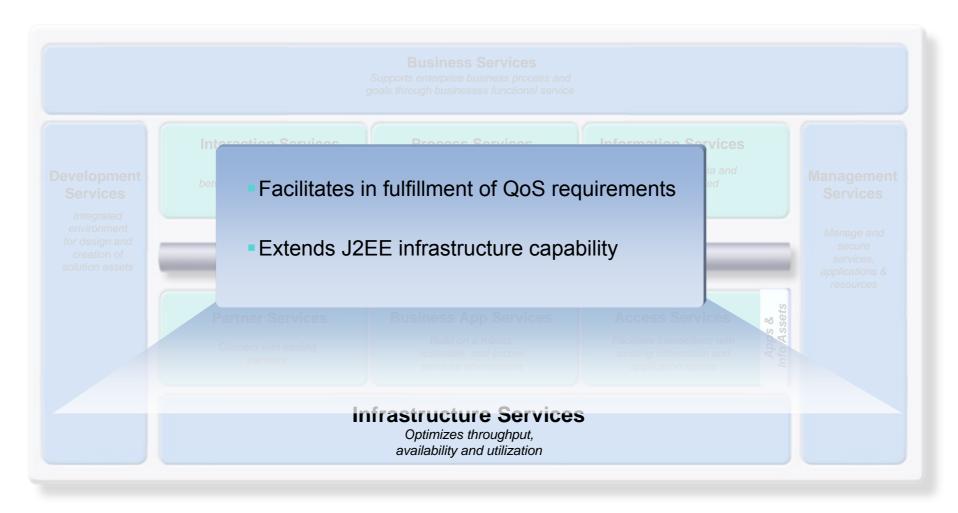






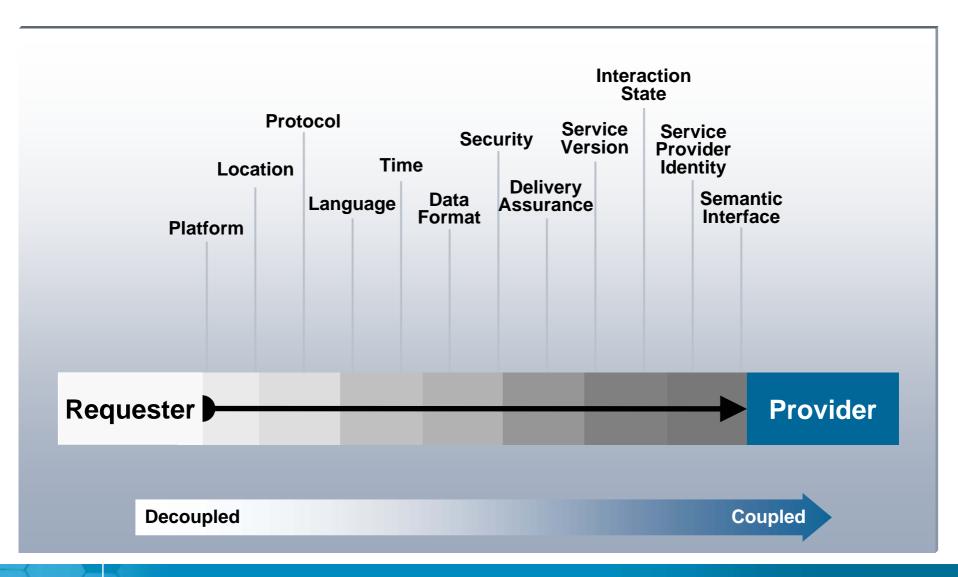






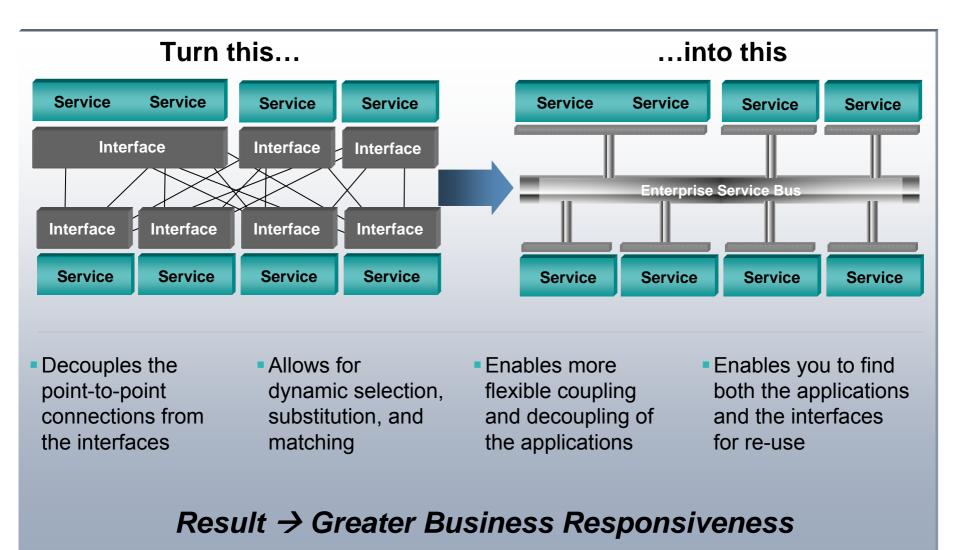


Degree of Coupling Impacts Service Flexibility



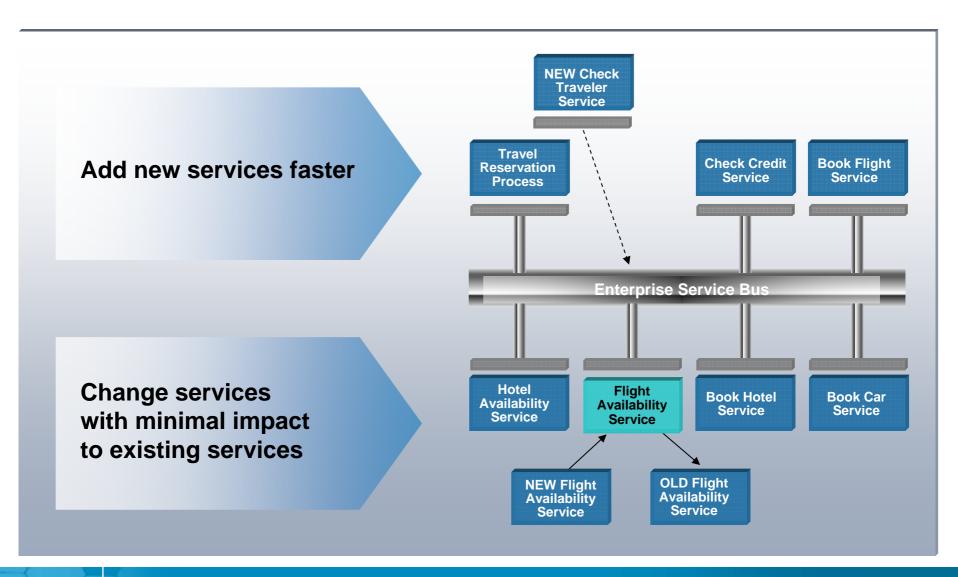


Loose Coupling: Increases Flexibility and Reuse





Loose Coupling: Makes it Easier to Add & Change Services





What is an Enterprise Service Bus (ESB)?

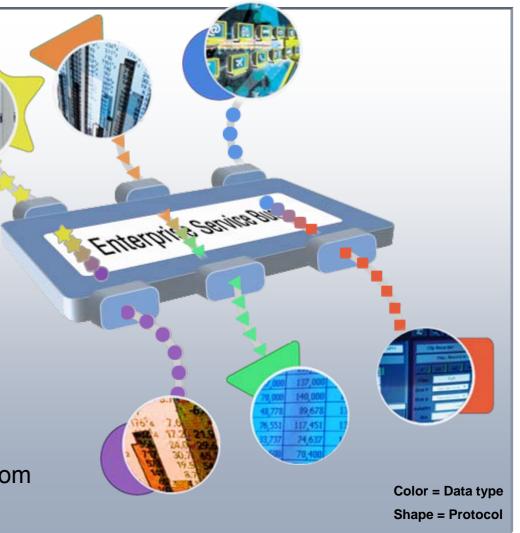
Flexible connectivity infrastructure for integrating applications and services to power your SOA

ROUTING messages between services

CONVERTING transport protocols between requestor and service

▶ TRANSFORMING message format between requestor and service

HANDLING business events from disparate sources





ESB Portfolio

ESB:

Provides Web Services connectivity and data transformation

Advanced ESB:

Provides universal connectivity and data transformation

ESB



SOA Appliance

SOA Appliances:

Enhances security, simplifies and accelerates processing for the ESB



Publish

A Service Registry/Repository Helps Manage Services

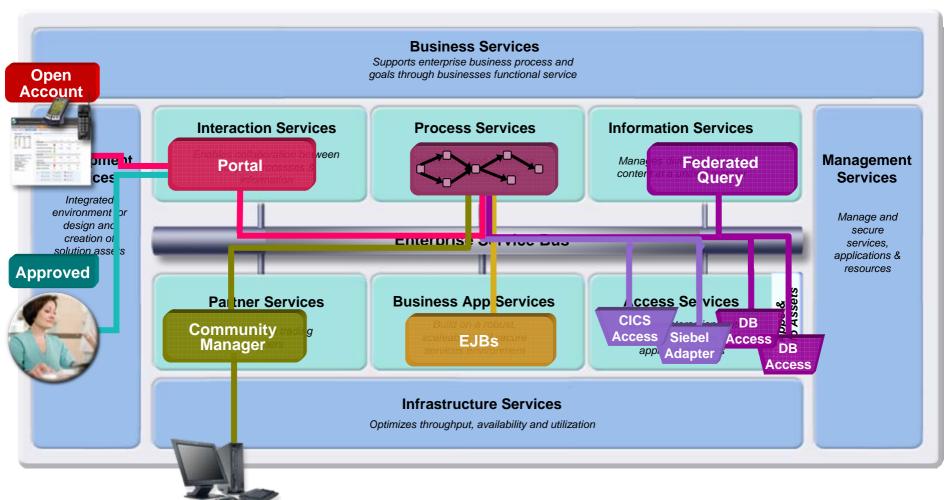
Describe. Discover. Search. Approve, A Registry/Repository is Retrieve Configure Services Services an enterprise-wide system for Storing, Accessing, and Managing SOA Service Registry/ Metamodel Central Catalog Repository Metadata to provide for service virtualization and Lifecycle **Policy** Governance **Federation** management of the service-based Identify, Manage Policies, Notify, environment Change, Version, Secure, Access Classify, Analyze, Services **Promote Services** Manage Subscribe

Find



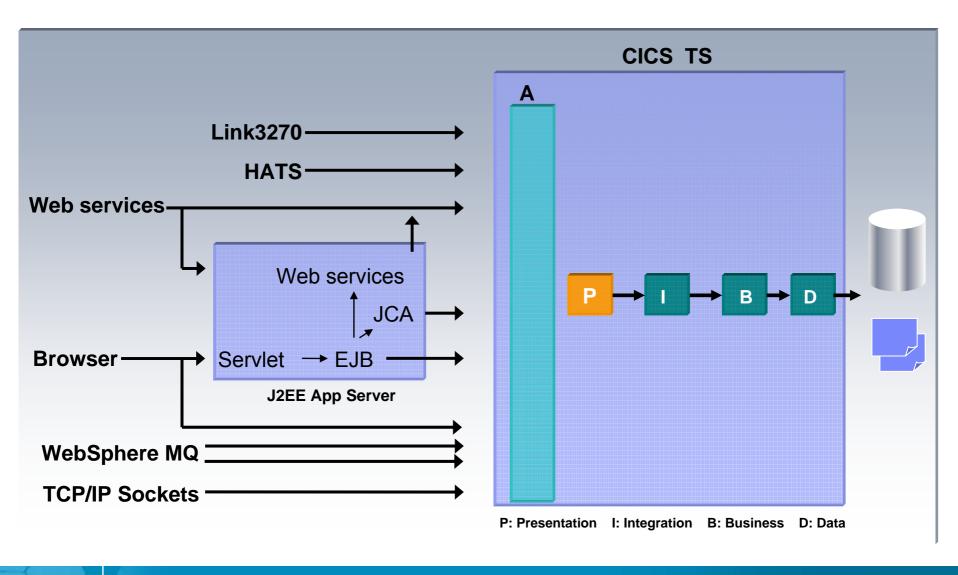
Composite Applications

Solutions built around processes combining multiple services, which may be both new services and existing business assets



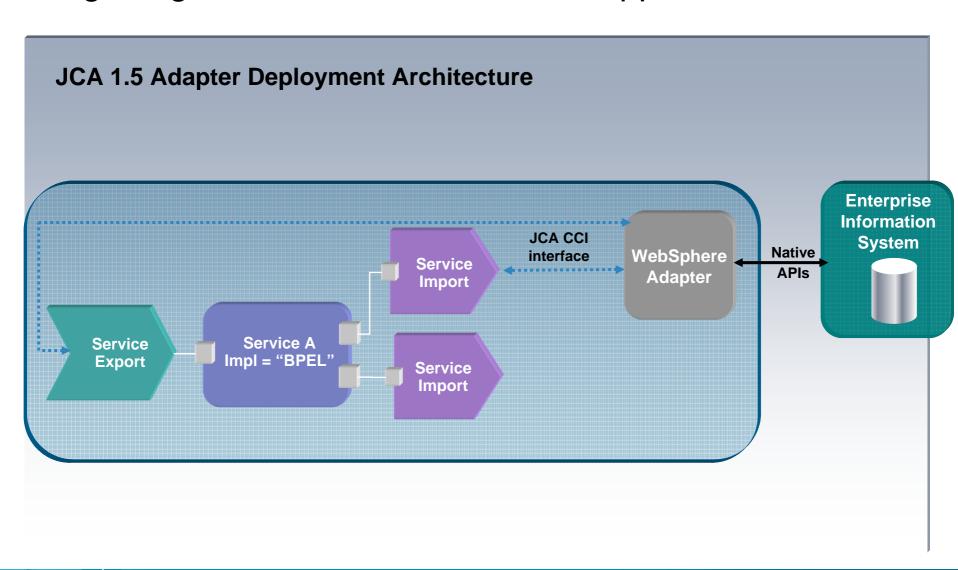


Integrating with Mainframe Applications



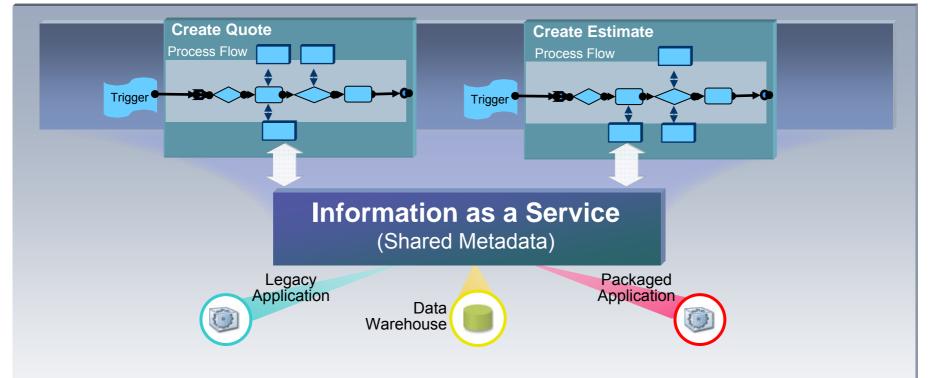


Integrating with Assets in Distributed Applications





Integrating with Information

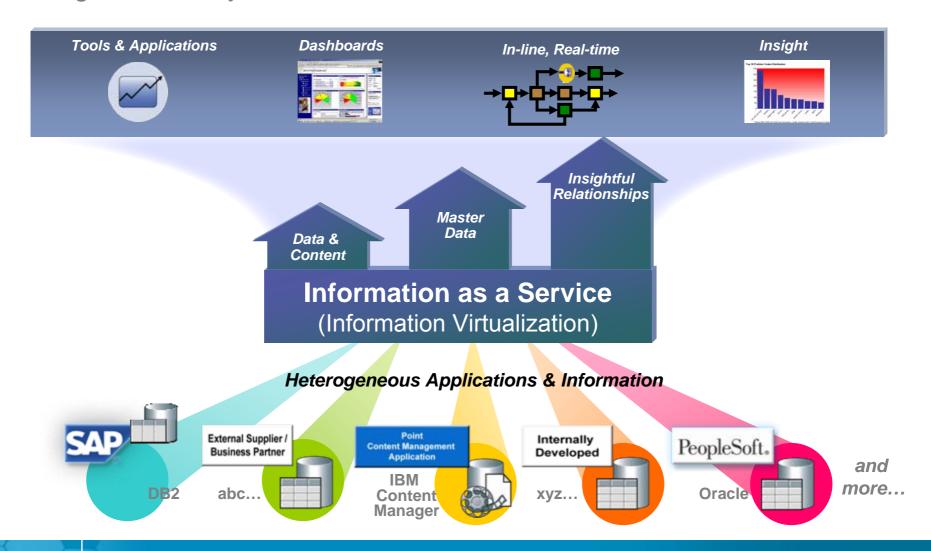


- Consistent packaging of data
- Leverages understanding of metadata relationships
- Applies consistent rules to data
- Centralized control and maintenance
- Flexibility to change information sources and formats



Information as a Service

Moving From a Project-Based to a Flexible Information Architecture





Quality of Service Considerations

Dynamic Operations

- Adapt to business changes automatically
- Performance goals for differing workloads
- Apply IT intelligence to reduce the need for manual intervention



Extended Manageability

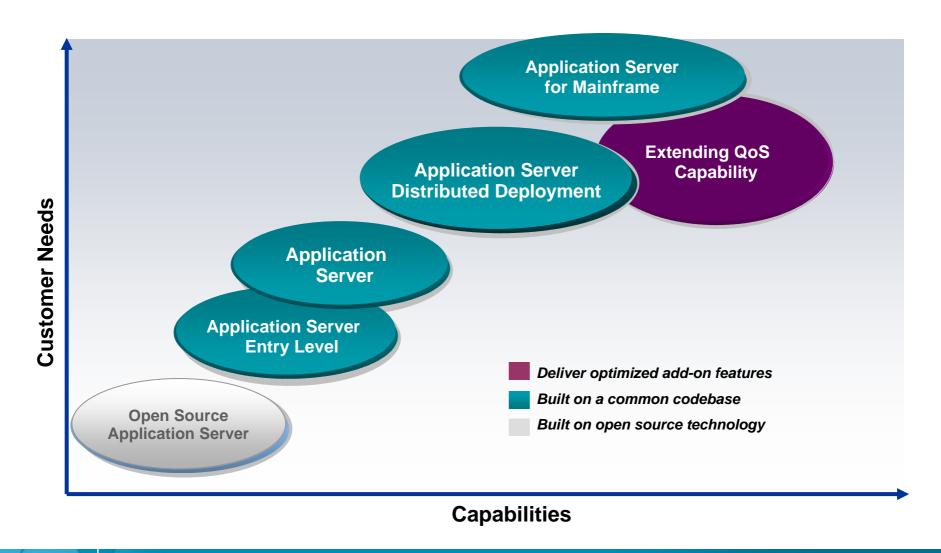
 At-a-glance system assessments for health and vitality

High Performance Computing

Optimize your transactions for improved performance and availability



Middleware Suite Quality of Service Capabilities





Quality of Service Considerations

Leverage Middleware Infrastructure Capabilities

Flexibility for heterogeneous environment

- Efficiently support mixed workloads
- Effectively enable quality of service management for a mixed application servers and data sources

Optimizing the performance and throughput of transactions

- ObjectGrid, a caching fabric which enables object data to be shared among multiple clients
- Partitioning facility enables the development of highly scalable, high performance J2EE applications

Enhanced manageability

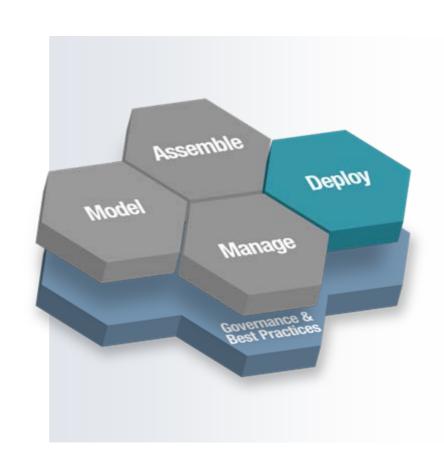
- At-a-glance assessments of system vitality and improved application manageability
- Interruption-free application updates to manage the deployment of multiple application versions





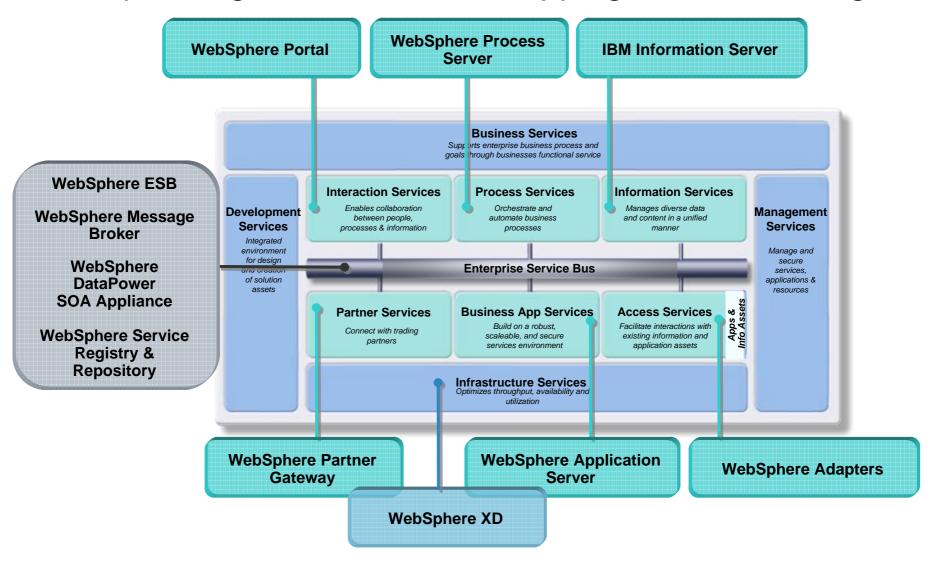
Agenda

- SOA Operating Environment Requirements
- SOA Operating Environment Key Principles
- Mapping to the IBM Products
 - Products in the Operating Environment





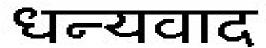
SOA Operating Environment – Mapping to IBM Offerings





Summary

- SOA Operating Environment brings in new considerations at deploy time
- SOA Reference Architecture enables separation of concerns
- ESB provides for loose coupling & flexibility
- Composite Applications enable the reuse of existing assets
- SOA Quality of Service considerations are same as traditional applications but may manifest differently in the infrastructure



Hindi





Teşekkür ederim





Thank You

Mange tak



Italian





Danke

German



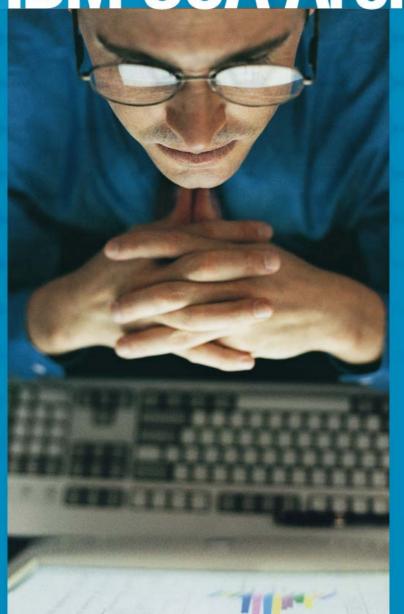
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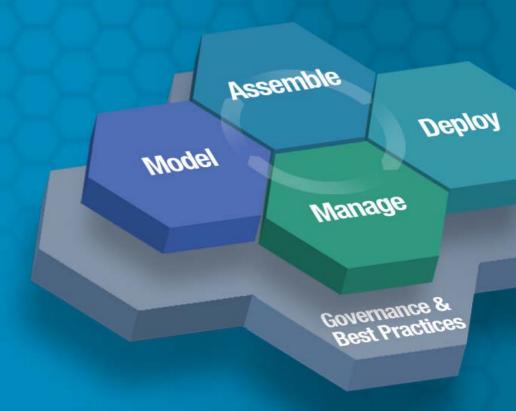
Korean

ありがとうございました

Japanes

IBM SOA Architect Summit





SOA on your terms and our expertise