

## What is SOA and Service Orientation – Why is it important for your Business

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Vice President WebSphere February 2006

SOA on your terms and our expertise



## What is the top focus of businesses?

### What businesses are concerned about

- 75% of CEOs place a high or very high priority on the ability to respond rapidly
- Only 1 in 10 CEOs believe that their organization has the ability to be very responsive to react to changing market conditions

### What SOA does for business

- Rapid response to changing business conditions
- Allows business processes to be reconfigured quickly and easily
- Protects investments in existing IT systems
- Enables monitoring to capture effectiveness

### Responsiveness: the new key competence

So growth is back on the agenda – but it won't just happen by itself. CEOs all over the world have identified organizational responsiveness, agility and flexibility as necessary competencies. Developing the ability of the organization to not just sense, but to anticipate and respond to the changing marketplace and subsequent customer requirements is one of the great challenges for today's CEO.

CEOs are now focusing on how their organizations read, listen and react to dynamically changing external and internal conditions. As one CEO patit, "we have to implement a competitive

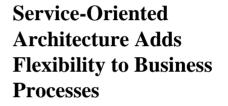
Source: IBM Global CEO Survey, Feb 2004



## Where is SOA Going?

- By 2008 SOA will provide the basis for 80 percent of new development projects.
- By 2008, SOAs will enable organizations to increase code reuse by more than 100 percent.

"For anyone involved in IT, the issue is not if SOA will have an impact, but when, and how aggressively you should go out to meet the future rather than waiting for it to come to you" Service-Oriented Architecture Adds Flexibility to Business Processes, Simon Hayward, Gartner 2005



The business impact of SOA outside of the IT industry lies in the increased flexibility of software as it relates to changing business processes. Software has become a fundamental ingredient in operating the process of almost any business — but the capability and efficiency that this has delivered have often come at the price of locking a business process at the point in time that the software was implemented.

## Why SOA now?

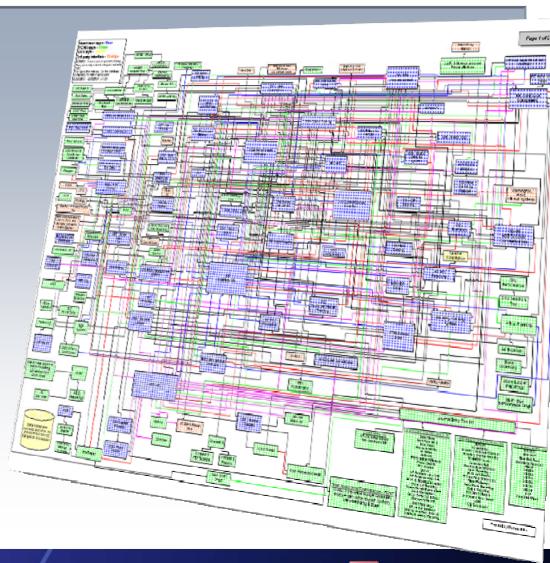
### To keep pace with global competition:

- "We are taking apart each task and sending it
   ... to whomever can do it best, ... and then
   we are reassembling all the pieces"
   from Thomas Friedman's 'The World is Flat'
- The standards and technology are finally in place, with broad industry support
- Availability of best practices for effective governance
- The necessary software to get started is available today



## What are the barriers to business flexibility and reuse?

- Lack of business process standards
- Architectural policy limited
- Point application buys
- Infrastructure built with no roadmap
- Disparate information

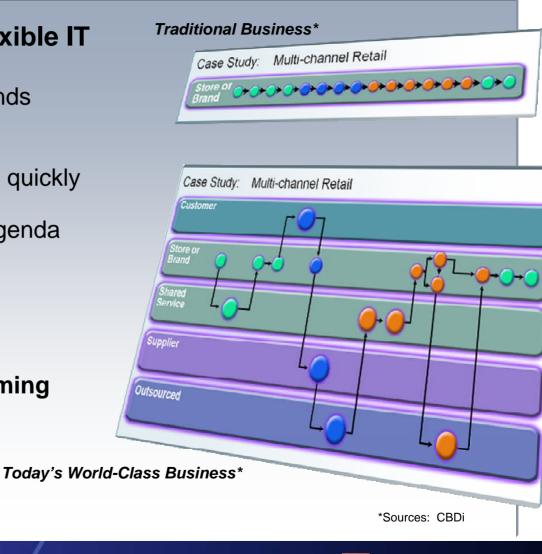




## Why SOA for business flexibility and reuse?

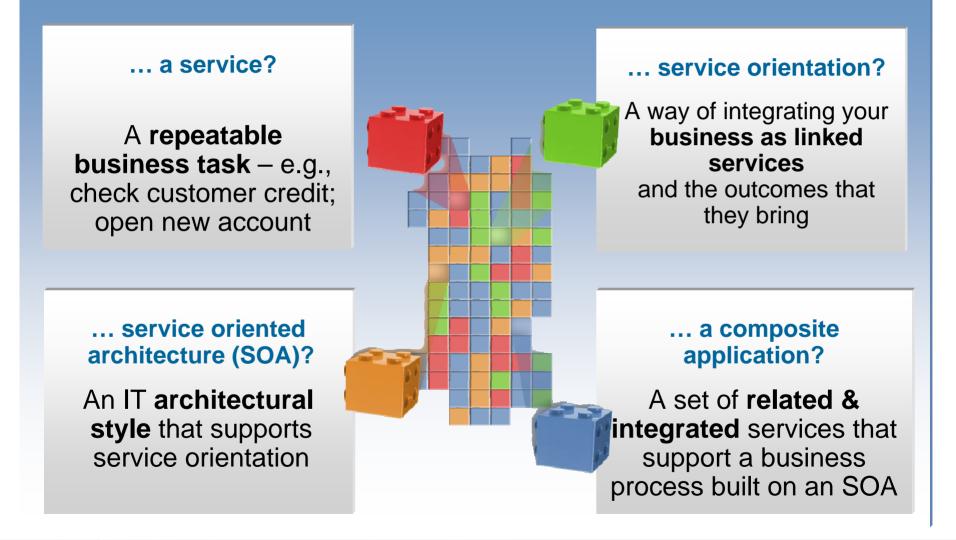
### Flexible business requires flexible IT

- Economics: globalization demands flexibility
- Business processes: changing quickly
- Growth: at the top of the CEO agenda
- Reusable assets: can cut costs
- Information: greater availability
- Crucial for flexibility and becoming an On Demand Business



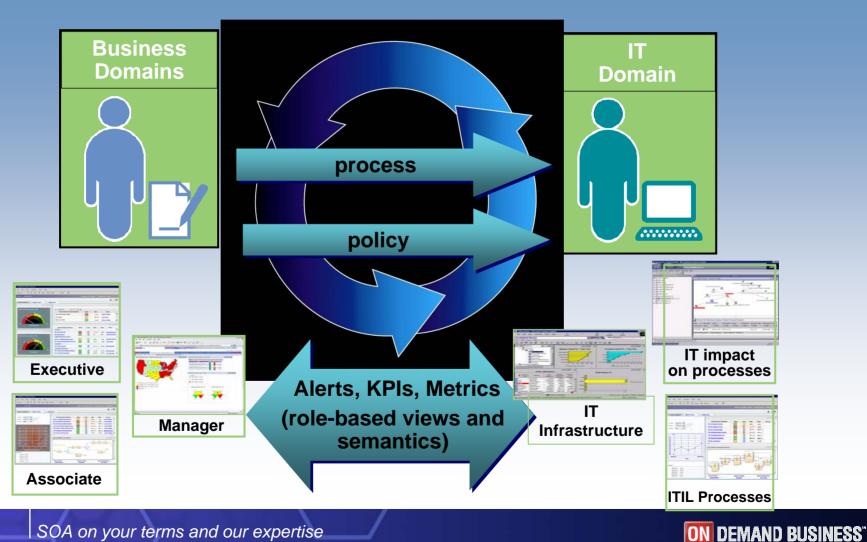


## Simply Put, What Is It? Service Orientation? SOA?



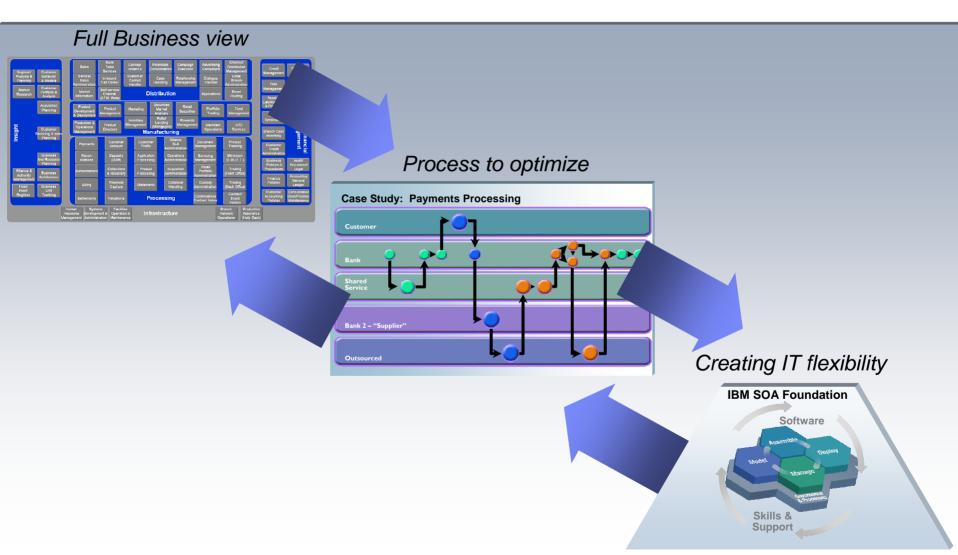


## The core of business performance is cross-organizational optimization and innovation



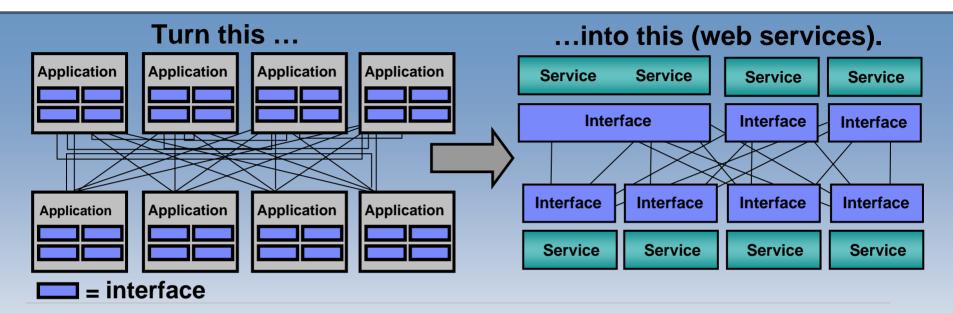


## Flexible business requires flexible IT





### Web Services decouples interfaces from their applications...



 Rich business abstractions describe the application interface

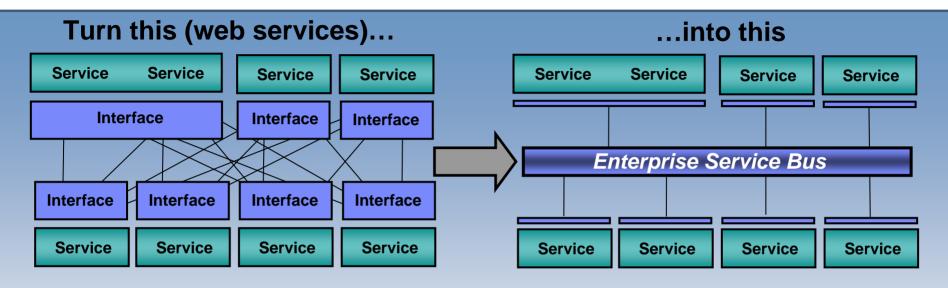
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- Decouples the interfaces from the business applications
- The number and complexity of the interfaces is reduced
- Business applications and their interfaces become reusable

But separate connection points still leaving bloated interfaces ....



### The Enterprise Service Bus shrinks those interfaces further



Decouples the point-to-point connections from the interfaces

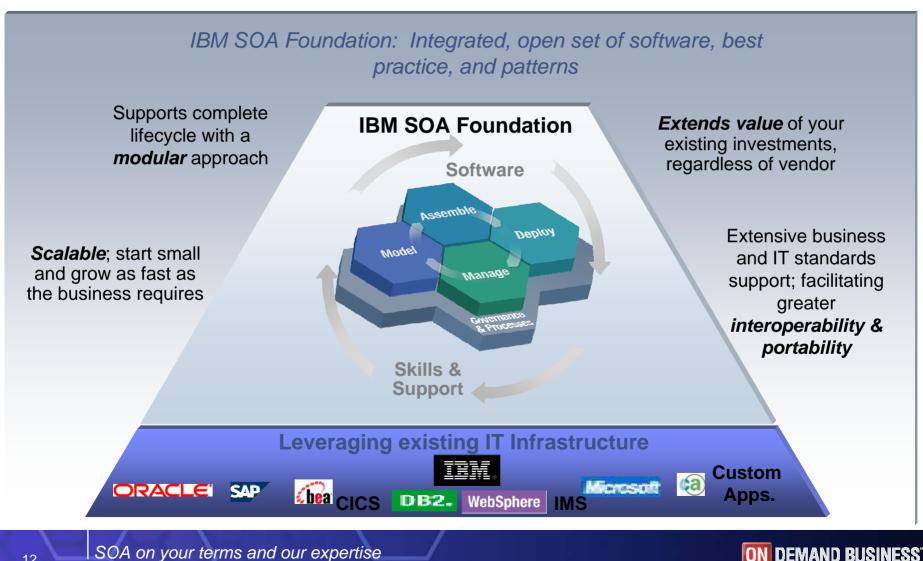
- Allows for dynamic selection, substitution, and matching
- Enables more flexible coupling and decoupling of the applications
- Enables you to find both the applications and the interfaces for re-use

## **RESULT** → **Greater Business Responsiveness**



## The IBM SOA Foundation

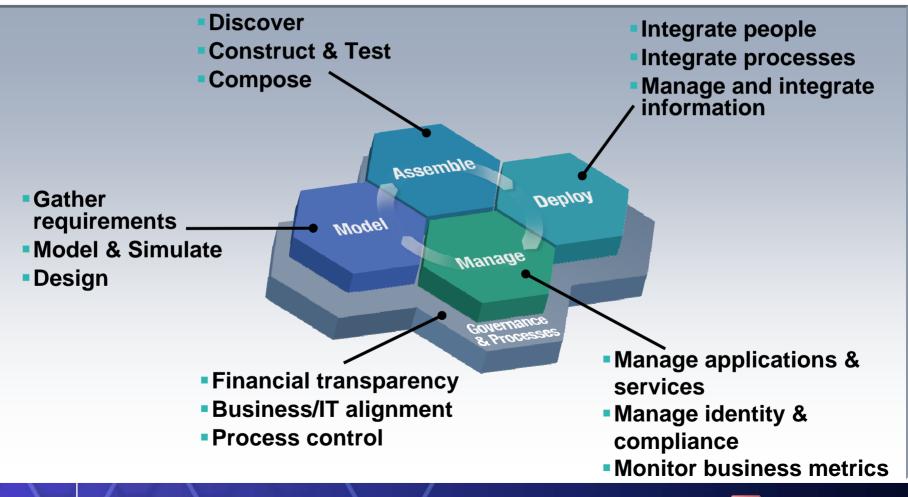
Provides What You Need to Get Started with SOA



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# How are customers thinking technically about flexible IT through SOA?

The SOA Lifecycle

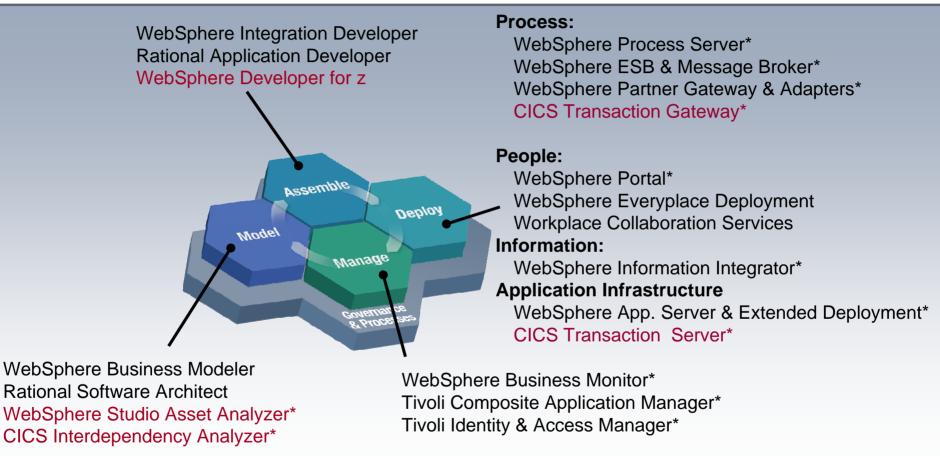


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## SOA Foundation & Additional SOA Enabling Products

Part of a broader portfolio to meet your every need



\* Indicates products currently running – or with stated plans to run – natively on System z9 and zSeries.

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## WebSphere Business Modeler V6

Modeling business processes for SOA roll-out

### **Modeling For Compliance/Documentation**

- Document processes for use by a business to understand the business process
- Customers use output for training, collaboration, documentation requirements for compliance regulations (Sarbanes-Oxley and Basel II)
- Linkage to real-time monitoring provides a feedback mechanism for reporting requirements needed for compliance

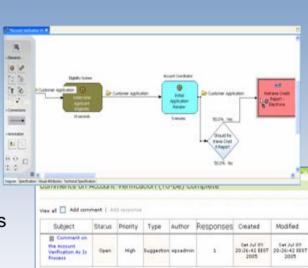
### Modeling For Redesign

- Document both the current state and future state business process and the comparison to determine Return on Investment (ROI) analysis
- Six Sigma and Process Improvement are common methodologies

### Modeling For Execution

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 Modeler can create artifacts from the business model and make them available in technology development tools to reduce the overall implementation time of new business processes.







## **WebSphere Integration Developer V6**

Assembling composite applications with ease

### Streamlining process design handoff between business and IT

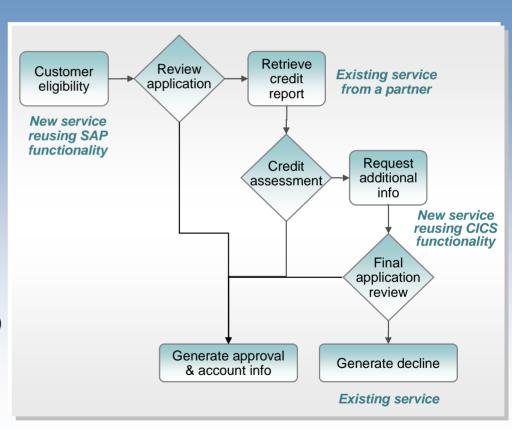
 Import and work with business process models directly from the business analyst (WebSphere Business Modeler)

# Simplifying and speeding development

- Easy to use tools where everything can be done through the GUI
- Single way to define all types of processes (human, automated, rules, etc.)

### Maximizing re-use

 Ability to leverage existing services and develop for future reuse





## WebSphere Developer for zSeries

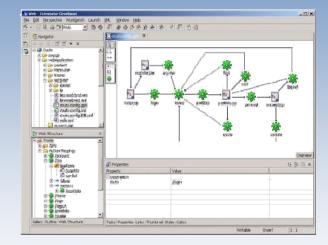
Assemble Services Across Platforms

### Create composite applications with Core Assets

- Bridges mainframe and client-server development
  - For end-to-end integrated processes running across platforms
  - Shared developer repositories and tooling framework
- For deployment to WebSphere, CICS, IMS, DB2 and batch
  - Cross platform development
  - Workstation based development tool
  - Workstation based mainframe application analysis tool
- Develop SOA systems that combine Web services, web applications and traditional applications
  - Cobol, PL/1, EGL (4GL)
  - Java, J2EE, WSDL, Java Beans, XML adapters
  - Portlets and complex user interfaces
  - Service flow modeler for CICS and HATS

WebSphere Developer for zSeries became generally available in June 2005.

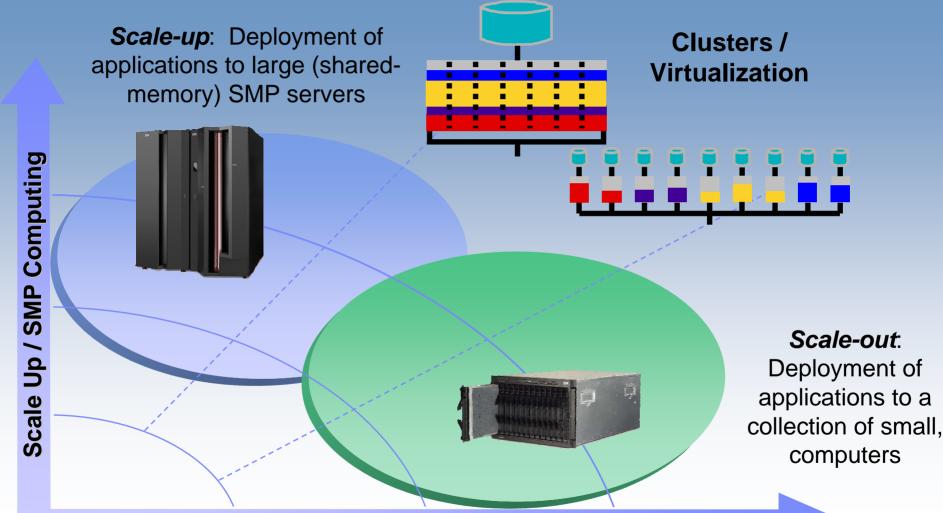






## Techniques for achieving scale and availability





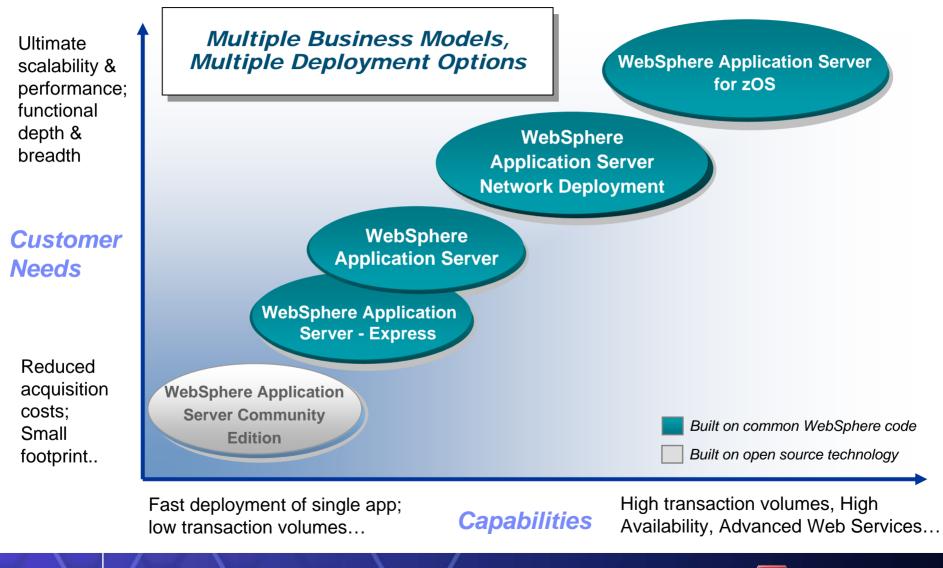
### Scale Out / Distributed Computing

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## **The WebSphere Application Server Family Summary**



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## **WebSphere Application Server v6.0.2**

Enabling a robust, flexible SOA runtime environment



### **J2EE Enhancements**

- J2EE 1.4 Compliance
- Java Server Faces (JSF) support
- Programming Model Extensions
- WebSphere Rapid Deployment (WRD) framework for simplified J2EE application construction and deployment
- Embedded JMS provider implementation with exceptional scaling, and interoperation with MQ

### Ease of Use

- Packaging aligned with distributed platforms
- Deployment Plans to support strong separation of application configuration requirements
- Mixed cell support
- Unified clustering for consistent cluster management and improved workload balancing
- Administration Improvements
- Tooling enhancements

#### Common code base

z/OS and distributed platforms

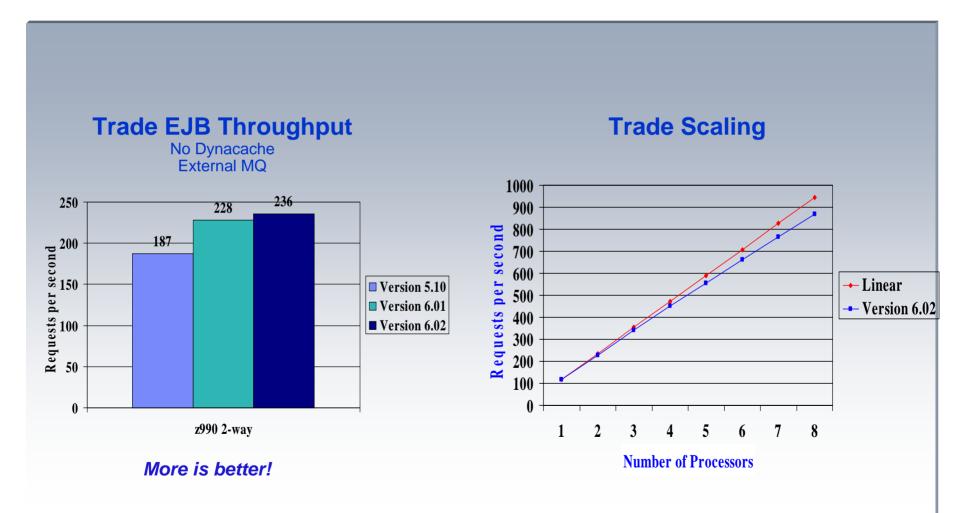
### **Web Services**

- Services Oriented Architecture support
- Web Services Gateway with pre-defined mediations, workload balancing
- Service Data Objects, WS-I Basic Profile 1.1 Conformance
- Multi-protocol support (SOAP/HTTP, SOAP/JMS, Local Optimization) under a common JAX-RPC client interface



## **WAS z/OS Performance – Trade Scenario**

5-15% improvement from V5.1 to V6.0.2!



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## 2H06 "z Deliverables"



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### 64-Bit Support on WAS 6.1

- Allows WebSphere Application Server to run in 64-bit virtual addressing mode
  - Today JVM heap limited to 1G
  - Removes restriction on amount of virtual storage available to both the applications and the server
- Addressing mode will be configurable on a per server basis
  - One node can contain both a 31-bit server and a 64-bit server

### "Apache HTTP Server" on z/OS on WAS 6.1

- Meet customer demands for "Apache" on zOS
  - Provide an easier to use HTTP server on z
    - same skills required as on other platforms
    - doesn't require deep z skills to use
  - Port of the distributed code base onto z platform
  - Focus on making Z-IHS look/feel like D-IHS
  - No additional function beyond what is in D-IHS in initial release
- Currently in beta
- Post GA deliverable
  - Current target is late 2H06

- Post GA deliverable:
  - Current target is late 2H06

## WebSphere Portal V5.1

## Framework Services

- Quickly develop and deploy portal applications
- Customize and personalize delivery

#### **Integration Services**

- Leverage existing IT investments
- Simplify access to processes, content and applications

#### **Content Services**

- Delivers pre-built productivity components
- Create, manage and search content and web assets

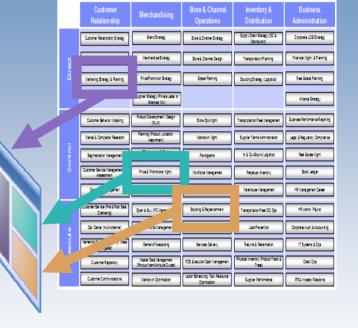
#### **Collaboration Services**

- Delivers ready-to-use collaborative components
- Find, connect, and work with people

#### WebSphere Portal on z

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- Functional Parity with WebSphere Portal for Multiplatforms V5.1
- Close to 100% code compatibility
- Easier and More Intuitive Installation and Configuration
- Selected Exploitation of z/OS Qualities of Service
- Performance equal to or better than WebSphere Portal for Multiplatforms V5.1
- Enterprise Characteristics of the z/OS Platform
- Includes support for the zSeries Application Assist Processor (zAAP)





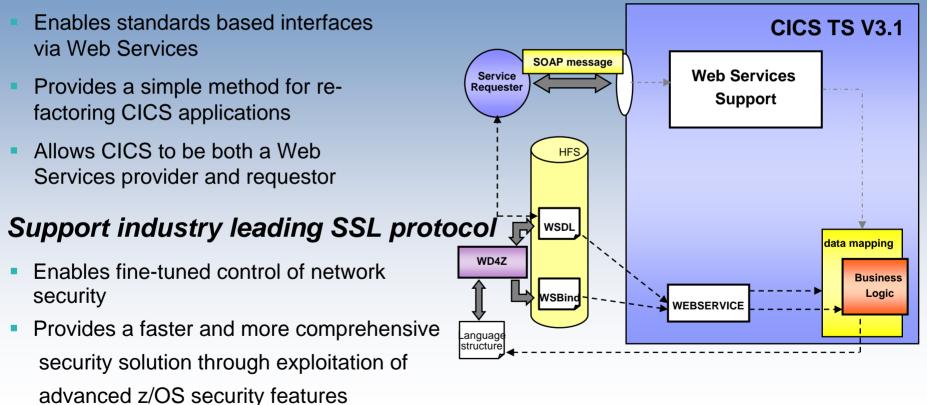


## New in CICS Transaction Server V3.1 –

Ease of Integration



### **Exposure of CICS-based applications as Web Services for** *integration in a Service Oriented Architecture (SOA)*



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## **WebSphere Process Server V6**

Deploying processes within BPM enhances your SOA project

### Simple, flexible deployment of processes

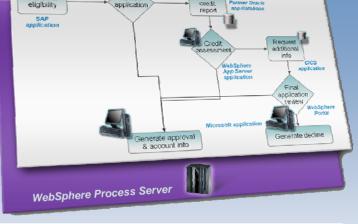
 Built and optimized on the market leading application server, IBM WebSphere Application Server

### **Powered by Enterprise Service Bus (ESB)**

- Built on top of an open standards based ESB
- Flexible connectivity infrastructure for integrating applications, data, and services to power your SOA

### Dynamically modify deployed processes

- Making plug-and-play of process components a reality
- Change business rules quickly and easily



Customer

"Once the up-front analysis and definition work are completed, the Business Integration infrastructure allows us to implement new business processes at a rate of one every few weeks for medium to complex processes."

- EAI Project Manager, Electrabel



## WebSphere Extended Deployment for z/OS V6.0.1

Delivering high qualities of service to your SOA

### **Business flexibility**

- Delivers full WebSphere J2EE batch environment, which can be processed in conjunction with OLTP
- Management of both WebSphere and non-WebSphere servers

### Simplify large scale production implementations

- At-a-glance assessments of system vitality and success with visualization
- Interruption-free application updates to manage deployment of multiple application versions in production environments
- Controlled implementation of proactive health management facilities

#### Improve the performance and throughput of your transactions

- ObjectGrid provides a caching framework for client based objects which drives down non-productive datasource trasactions
- Partitioning facility enables development of highly scalable, high performance J2EE applications

#### Deliver added intelligence to your application infrastructure

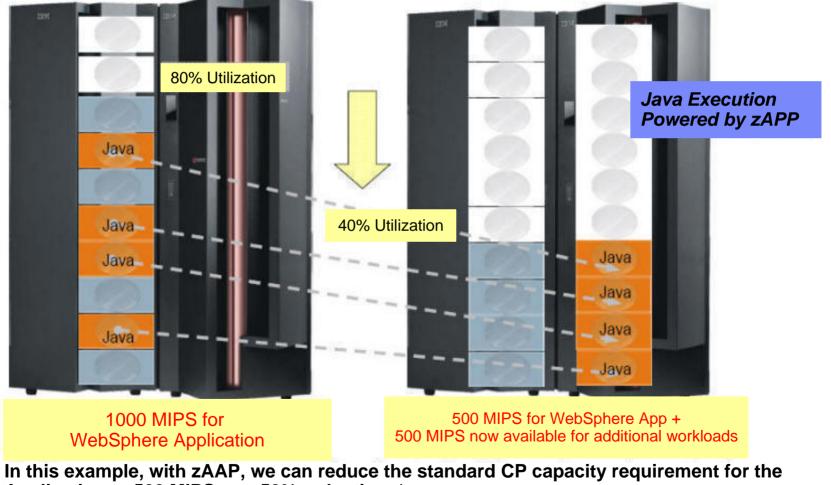
Integration with z/OS WLM enables improved Edge-of-Sysplex routing capabilities using the On Demand Router





## WebSphere Application Assist Processor for z/OS

Consider a WebSphere Application that is transactional in nature and requires 1000 MIPS today on zSeries



Application to 500 MIPS or a 50% reduction. \*For illustrative purposes only

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## **WebSphere Business Monitor**

Monitoring business performance across your SOA

#### View and modify your business in real time

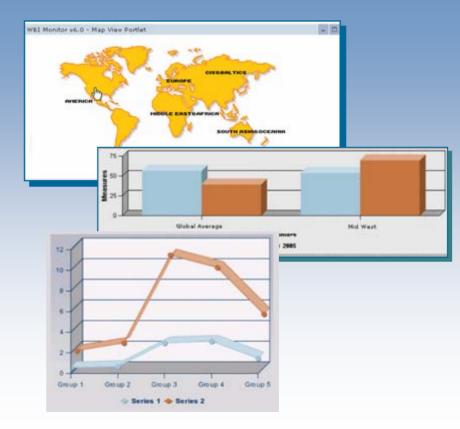
- Management dashboards and reporting capabilities, including trending information
- Tools to define or customize your dashboards
- See how your business is performing before issues arise
- Set KPI's based upon Key Performance Objectives

#### Ability to intervene in deployed processes

 Action Manager – supporting real-time response and action as performance data is received

#### Supporting continuous process improvement

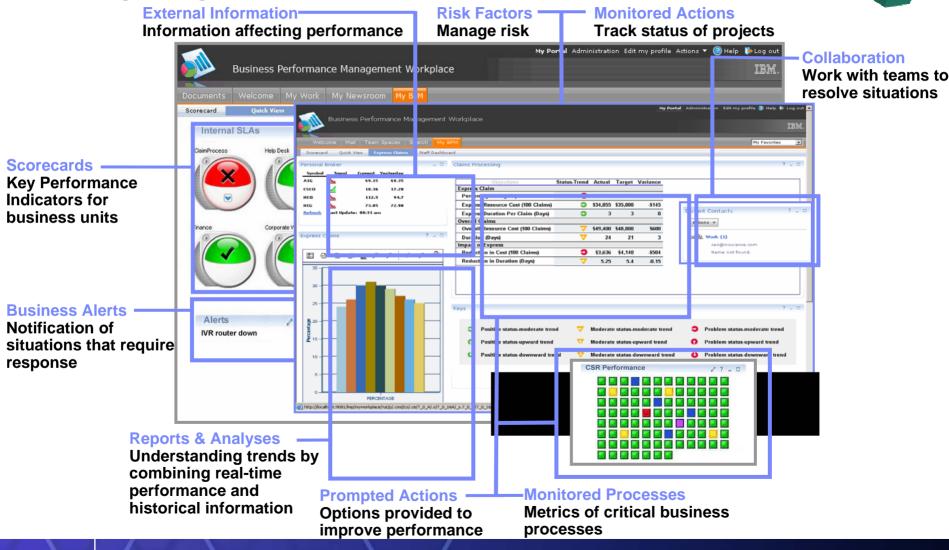
- Ability to export data to WebSphere Business Modeler for analysis and process improvement
- Run modeling simulations based on real data from the business monitor





## **WebSphere Business Monitor**

IBM Brings Together Process and Enterprise Information





## **IBM Customer Order System**

Transformed with SOA to a flexible, dynamic environment

### The Challenge

- Backlog of unmet business requirements
- Lengthy development cycle
- Lack of skills to maintain legacy code.

### **Real Results**

- Reduced time and cost of new releases by 25%
- Business logic adaptable in real-time by business users
- Improved business insight and better performance for faster order fulfillment

### How they changed

- Created a business model and standardized, reusable components
- New environment supports real-time transaction processing and increases resiliency with built-in performance monitoring through KPI's



## SOA Foundation is more than just software

### **Governance and Process**

- SOA Center of Excellence
- Rational Unified Process (RUP)
- IT Infrastructure Library (ITIL)



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#### **Best Practices**

- SOA-Related IP
  - Patterns
  - Redbooks
- Engagement Experience

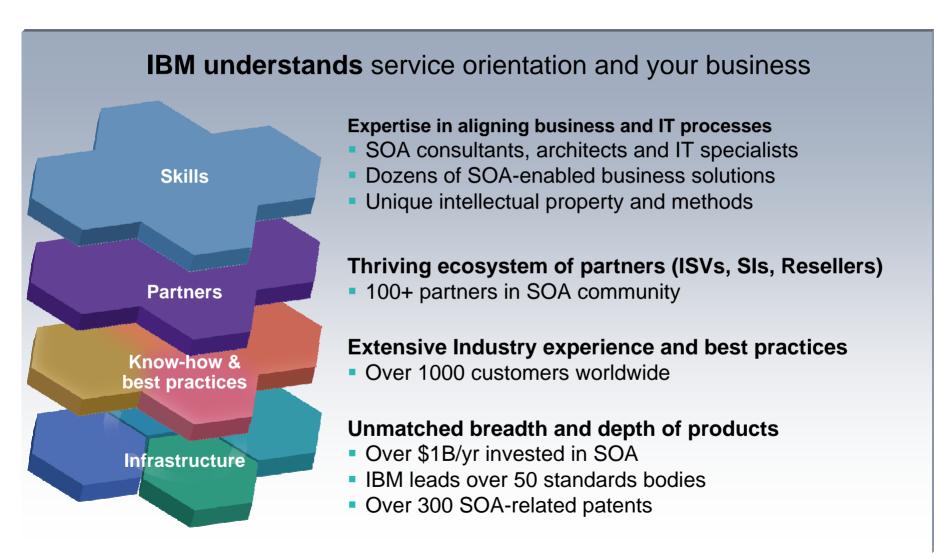
### Education

- Introduction to Value and Governance Model of SOA
- Web services for managers
- Technologies and Standards for SOA Project Implementation
- Design SOA Solutions and Apply Governance





## **IBM SOA Offerings**





### IBM SOA Assessment Tool On line or on site

SOA Readiness Assessment - Microsoft Internet Explorer - 🗆 🗙 IEM. SOA Readiness Assessment Questions Questions Maturity Insights Lifecycle 1 2 3 🖪 • Application Which statement best describes your organization's ability to create new applications from existing services? SOA Readiness Assessment - Microsoft Internet Explorer Currently we are not able to create r IBM 。 services Maturity Questions We are beginning to create composiservices having the desired interfact Capabilities Gap Analysis We often create new solutions using Architecture business.

> We often create new solutions using and at the enterprise level

<< Previous Question

Architecture make up the services layer in the SO/ Architecture Maturity Leve You are at the second level Integrate. At this level you h the business and IT proces Application Process to support the full life cyc Automate Infrastructure close **ON DEMAND BUSINESS** Print Help SOA on your terms and our expertise

Receive actionable recommendations customized to your level of SOA maturity

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SOA Readiness Assessment

**Maturity Level Analysis** 

The architecture assessment category

Maturity Insights Lifecycle

# to assess the current or planned servi-You Are Here Find out at ibm.com/soa or contact soa@us.ibm.com

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How Do

Get Here?

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Print Help



## Why IBM WebSphere software for SOA?

# Nobody has the same breadth and depth

- Broad portfolio relied on by over 87,000 customers
- #1 across application integration middleware
- Extensive ecosystem more than 4,000 partners and 3,150 active ISV solutions

### Nobody invests more

- IBM investing over \$1B a year around SOA and Web services
- Over 6,700 IBM developers
- Over 10,750 IGS technical practitioners trained on WebSphere

### Award winning SOA products

## intelligent

IBM tops elite vendor list

-Intelligent Enterprise Editors' Choice Awards (April 2005)



IBM Overall Winner in Application Integration Middleware

-CRN Channel Champions Award (March 2005)

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WebSphere: "impressive management options, support for Web services and general ease of use..." – Network Computing (February 2005)



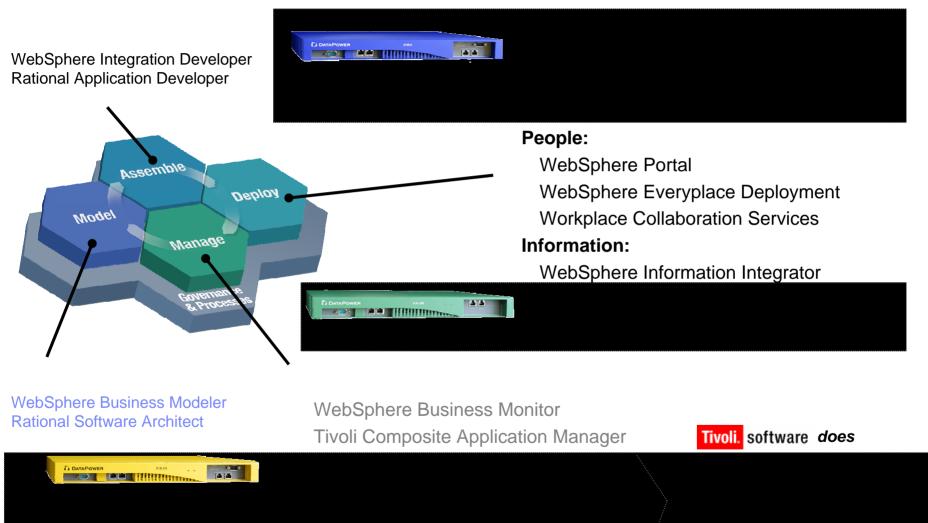


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## Back-up

## **DataPower Continues SOA Foundation Enhancement**



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# Enhance business flexibility with zSeries

Meet new requirements by leveraging your most valuable zSeries assets

Manage

#### IBM can help you build a service oriented architecture around your core zSeries applications

- Improve cooperation between your mainframe and client-server application teams using open integration technologies and common tools
- Program zSeries (WAS, CICS, IMS and DB2) with the latest Eclipse-based development workbench

Nodel

Assemble

 Analyze your applications to reveal reusable business services

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Trace usage patterns / service levels

- Automatically generate web-interfaces for core CICS and IMS applications
- Create state-of-the art user interfaces without deep programming skills
- Integrate multiple core and new applications within the same workspace
- Compose business level web services from existing CICS and IMS transactions
- Retain mainframe availability, scalability, security and recoverability
- Connect applications right across your enterprise, across all platforms
- Use the latest middleware and management tools to reduce operational overheads

Deploy

# Choose SOA from IBM so that you can maximize re-use and avoid the cost and risk of new application development projects.



## IBM

# Gartner Magic Quadrants: IBM in 11 Leader's Quadrants

### **IBM in Leaders Quadrant**

Object-oriented Analysis and Design Tools (as of 10/2004)

Magic Quadrant for OOA&D Tools, Update for 2005, Michael J. Blechar, 17 September 2004

- IT Project and Portfolio Management (as of 6/2005) Magic Quadrant for IT Project and Portfolio Management, 2005, Matt Light, Daniel B. Stang, 22 June 2005
- Methodware (as of 8/2003) Magic Quadrant for Methodware, 2003, M. Light, 28 August 2003
- Web Services Platforms (as of 7/2005) Magic Quadrant for Web Services Platforms. David Mitchell Smith, Charles Abrams, Daniel Sholler, Daryl C. Plummer, Michele Cantara, 12 July 2005
- Integration Backbone Software (as of 4/2005) Magic Quadrant for Application Integration Suites, 2Q04, J. Thompson, R. Schulte, M. Cantara, J. Correia, K. lijima, L. F. Kenney, B. Lheureux, Y. Natis, M. Pezzini, J. Sinur, P. Malinverno.15 April 2005
- Enterprise Application Servers (as of 4/2005) Magic Quadrant for Enterprise Application Servers, 2Q05, Y. Natis, M. Pezzini, K. lijima, 15 April 2005
- Programmatic Integration Servers (as of 2/2005)

Magic Quadrant for Programmatic Integration Servers, 2005, Dale Vecchio, 25 February 2005

Horizontal Portal (as of 5/2005)

Magic Quadrant for Horizontal Portal Products, G.Phifer, R. Valdes, D.Gootzit, K.S. Underwood, L. F. Wurster, 18 May 2005

- Enterprise-Scope Application Platform Suites (as of 7/2005)
   Magic Quadrant for Enterprise-Scope Application Platform Suites, Yefim V. Natis, Massimo Pezzini, Daryl C. Plummer, Cameron Haight, Kimihiko lijima, 20 July 2005
- Smart Enterprise Suites (as of 5/2004)

Magic Quadrant for the Smart Enterprise Suite, 2004, G. Phifer, F. Caldwell, S. Hayward, J., Lundy, T. Eid, 17 May 2004

#### J2EE Application Server Management (as of 4/2005)

Magic Quadrant for J2EE Application Server Management, 2005, C. Haight, 4 April 2005

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## Selecting an ESB Depends Upon Your Requirements

Enterpise Service Bus	Full J2EE, JMS, and Web Services focusIntegration of Services with non- Services Applications	
	WebSphere ESB	WebSphere Message Broker
Web Services Support		
Message Transport & Protocol Switching		
Intelligent Routing & Message Logging		
Event Driven Processing		
Transformation of XML Data Formats		
Transformation of non-XML Data Formats		
Complex Event Processing		
Sensor & Device Integration		
Native Integration with CICS & VSAM		
Third party JMS integration		

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## Web Services Standards Evolution in WebSphere

WebSphere 5.02/5.1	WebSphere 6.0	WebSphere 6.1
JAX-RPC (JSR-101) 1.0 New standard API for programming Web services in Java	JAX-RPC (JSR-101) 1.1 • Additional type support & Fault support • Security - isUserInRole()	Performance Enhancements <ul> <li>SAAJ Changes</li> <li>SOAP/JMS</li> <li>New Parser (Banshee replacing B2B)</li> </ul>
JSR-109 1.0 New J2EE deployment model for Java Web services	JSR-109 – WSEE 1.1 • Tighter integration with J2EE 1.4 • Handlers support for EJBs	SOAP JMS Enhancements •Caching enhancements •Text message enhancements
SAAJ 1.1 • APIs for manipulating SOAP XML messages	SAAJ 1.2 •extends DOM (easy to cast to DOM and use)	WS-N (Notification) WS-I BSP (Basic Security Profile) WS-BA (Basic Activity)
WS-Security • Security Extensions WS-I Basic Profile 1.0 • Profile compliance	WS-Security •OASIS draft 17; Following WS-I Security Profile WS-I Basic Profile 1.1 (Attachments support) WS-TX AT WS-Addressing	Portal Service SCAP Connected Component (e.g. Net)
UDDI4J version 2.0 ((client)	UDDI v3 support •both registry implementation and client API library •Client UDDI v3 API different than JAXR (exposes more native UDDI v3 functionality N/A in JAXR)	Service Orchestration Existing Apps and Legacy Systems
WS Engine Enhanced Apache SOAP 2.3 New high performance SOAP engine supporting both HTTP and JMS	JAXR support	New Service Logie

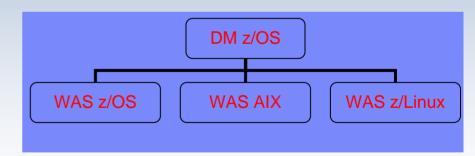


# Mixed Cell Support in 6.0.2

- Mixed Version Cells
  - A cell can contain V5.0.2, V5.1 and
     V6.0.2 nodes at the same time
  - Eases Migration to V6.0.2
  - Maintains single point of management



- Mixed Product Cells
  - A cell can contain both WAS multiplatform and WAS z/OS
  - The Deployment manager can be on either multi-platform or z/OS
  - Maintains single point of management
  - Limitations: No SAF security, No mixed clustering





IBM's On Demand Workplace (ODW) is a production showcase for WebSphere Extended Deployment

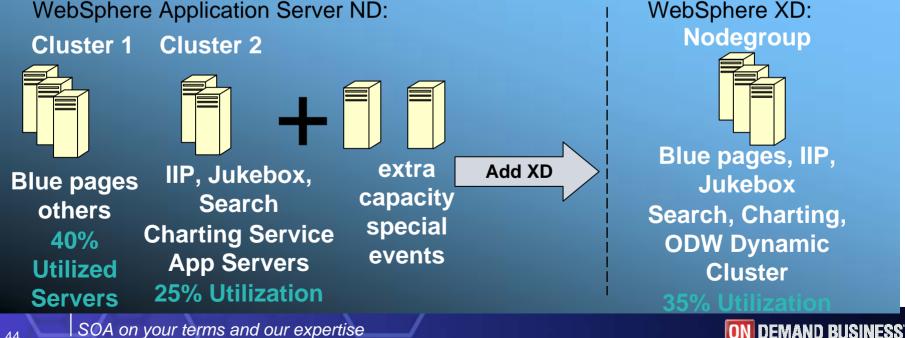
#### Challenge

Reduce hosting costs, increase resiliency and ability to dynamically increase capacity on-demand

#### Solution

Leverage WXD virtualization features for server consolidation and increased utilization

- Improved application resiliency and increased efficiency through virtualization
- Achieved cost savings of 25%
- Enhanced **monitoring** in a more complex environment.



## **Business Flexibility with WebSphere Process Server**

What is the business challenge?		
	<ul> <li>Multiple applications and systems not optimized to support business processes.</li> </ul>	
	<ul> <li>Difficult to collaborate among departments and systems.</li> </ul>	
<ul> <li>Inflexible processes with slow response time.</li> </ul>		
		Need improved business flexibility

### Action taken

- Single process integration infrastructure based on SOA using WebSphere Process Server and WebSphere Integration Developer
- Standards based BPEL processes that transform existing infrastructure to SOA
- Single server and tool to create and manage business processes

### **Benefits**

- Profitable use of existing applications to support new product development
- Improved business flexibility with dynamic and adaptive processes

# Standard Life Assurance Company

Building a competitive edge with a collaborative SOA

### The Challenge

- Used batch process to publish information to the web; impacted ability to provide latest information for IFAs (Independent Financial Advisors).
- Needed competitive, multi-channel portal offering to provide IFAs updated information, along with newer, more helpful services.

### **Real Results**

- IFAs can instantly retrieve up-to-date information and access more than 300 advanced business services provided by Standard Life.
- 900% more OLTs = increased competitiveness
- 1.6 Million mainframe transactions daily
- More than £3 million in development costs saved
- Voted Company of the Year by IFAs



#### How they changed

- A collaborative SOA using web services was developed to automatically transfer information seemlessly between backend systems and an IFA portal.
- IFAs are now able to provide customers with a thorough view of Standard Life's offerings, leveraging current data and advanced, robust, business tools.
- The solution was developed using Rational Application Developer, WebSphere Message Broker, IBM WebSphere MQ.

http://www.humanitas.it/ich/

## Istituto Clinico Humanitas Remote Access to Patient Records

#### The Challenge

Allow doctors, working remote with emergency facility, to quickly and securely make with the highest possible performance. ISTITUTO CLINICO HUMANITAS STRUTTURA OSPEDALIERA Accreditata con il SSN - Milano ITAL

#### How they changed

Implemented a robust IBM Mobile Enterprise Solution, providing a highly secure electronic Patient Records system that conformed to legal requirements and enabled doctors to consult health data at any time and from any place.

#### **Real Results**

- Improved service by providing immediate care for emergency patients without doctor on the scene.
- Reduced costs by providing Specialists / Doctors services on-call (from their home)
- Created new service for TechoSP in competitive field, allowing integration of hospital applications in secure data transport.

## **Travelex United Kingdom**

Faster to market with new services using an open, flexible infrastructure

#### **BUSINESS CHALLENGE:**

In a market traditionally dominated by large banks, Travelex leverages its agility and innovative use of e-commerce technology to differentiate itself in the foreign exchange market. However, its infrastructure lacked the standardization and integration to enable quick development and launch of new services – threatening the company's ability to remain competitive. Travelex needed open, flexible systems that would enable continued growth and innovation.

#### SOLUTION:

With the help of IBM Business Partner Osmosis Integration, Travelex consolidated its disparate systems onto an open IBM WebSphere-based service oriented architecture, enabling fast rollout of new applications and services. The integrated development environment is built for the reuse of valuable software components to save time and money.

#### **BENEFITS:**

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- New service development cycle time reduced by 30%
- Administrative and application support costs reduced by 20%
- Transaction processing time reduced by 85%
- Easy integration with partners using the open IT platform that is compatible with virtually any customer's systems



"We were the classic model of a company that had grown very large very quickly. To keep our competitive edge, we needed underlying systems that would complement—not impede—our agility as a business."

> Peter Beuken, Head of IT, Commercial Foreign Exchange, Travelex

Implemented using:

- WebSphere Application Server Enterprise
- WebSphere Application Studio Developer
- WebSphere Business Integration Server
- WebSphere Message Broker
- WebSphere MQ



# Key Links

- For Customer Videos/Webcasts of the story/Events
  - <u>www.ibm.com/soa</u>
- SOA Readiness Assessment
  - <u>http://www.ibm.com/websphere/soa\_assessment</u>
- SOA Customer Presentation
  - http://www.ibm.com/soa
- Business Case for SOA, CBDI Report
  - http://www-306.ibm.com/software/solutions/webservices/pdf/cbdi\_report\_soa.pdf
- SOA Project Definition (Free)
  - WSSOA@us.ibm.com
- SOA Jumpstart (Free)

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http://ausgsa.ibm.com/~wwbistew/stew/stew2004/BI/BIArchitects/SOAJumpstart.html

