

IBM Software Group

# WebSphere v6 Integration Solutions

A decorative horizontal bar at the bottom of the slide features a sequence of colored squares (green, yellow, red, purple, cyan) followed by a series of grayscale images, including a person's face and a hand holding a device.

@business on demand software

# Agenda

- **Integration Solutions**
- Portfolio Positioning

## Overview of Process Integration Capability

**Process Integration** is how you design, automate, and manage operational business processes

**WebSphere Process Integration** raises the bar by doing this on a **Services Oriented Architecture powered by an ESB.**

- ✓ Reduce time with reusable modules for business rules, human tasks, and state machines
- ✓ Extend your reach to any service across your enterprise
- ✓ Do this with less cost through a unified programming framework
- ✓ This allows you to solve higher level business problems more quickly and more easily
- ✓ It fulfills the promise of SOA

IBM can deliver beyond the promise of SOA with our **New Products:**

**IBM WebSphere Process Server**  
**IBM WebSphere Integration Developer**  
**IBM WebSphere Business Modeler**  
**IBM WebSphere Business Monitor**



# Customer Buying Patterns, our selling situations

## Selling Situations

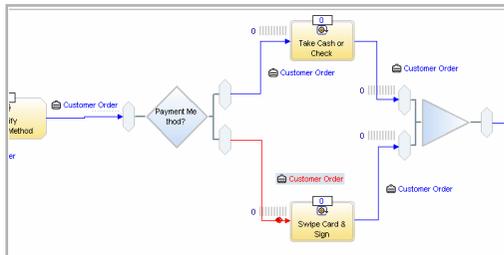
- **Process Modeling and Simulation**
  - ▶ Customer is seeking a business process analysis tool
- **Process Automation**
  - ▶ Customer is seeking to deploy business processes in IT
- **Process Management**
  - ▶ Customer is seeking to monitor ongoing performance of the deployed business processes



# Optimizing the Business Processes

## Process Modeling and Simulation

### What is it?



- Model business processes.
- Simulate, predict costs/bottlenecks
- Modify to optimize.
- Leverage models

### Value

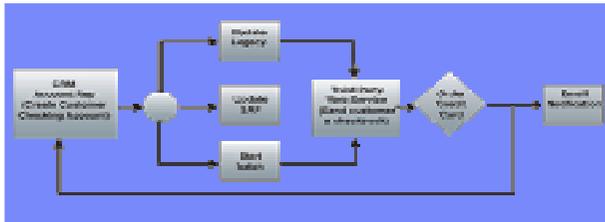
- Understand how the business performs
- Insights to make the business perform better
- Test the impact of change without risk

### WebSphere Offerings

- **WebSphere Business Modeler**

# Process Automation

## What is it?



- Choreograph Business and System Activities into Reusable Process Components
- Rapid solution deployment
- Integrate and Synchronize packaged applications
- Pre-built automation to simplify integration process

## Value

- More responsive IT organization
- Pre-built, reusable services reduce:
  - execution time
  - complexity/ maintenance costs
- Productivity through automated process execution

## WebSphere Offerings

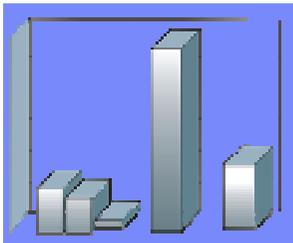
- **WebSphere Process Server V6**
- **WebSphere Integration Developer**



# Monitor and Manage Process Performance

## Process Management

### What is it?



- Monitor, control & improve business operations
- Collects information/feedback for tracking events across the enterprise

### Value

- Understand the current state of the business by monitoring:
  - process and work item status
  - KPI's
- Clarity through role based dashboards
- Track and audit work items for compliance

### WebSphere Offerings

- **WebSphere Business Monitor**

# Agenda

- Integration Solutions
- **Portfolio Positioning**

## WebSphere Business Process Management

- **The WebSphere Business Process Management (V6) is the only SOA centric Business Process Management Suite in the market that provides:**
  - First class support for composite process integration
  - First class support for all process styles and participants
  - First class support for native service oriented integration
  - End-to-end role-based tools for all of these capabilities on a single tools platform
  - Significantly improved Ease of Use for Developers building Integration Solutions

# Functional Characteristics

Solution Area	Capability	Functionality
Automate	People Integration	<ul style="list-style-type: none"> <li>Role-based aggregation</li> <li>Multi-channel Access</li> <li>Contextual Collaboration</li> <li>Orchestrated Workflow</li> </ul>
Automate	Process Integration	<ul style="list-style-type: none"> <li>Process Modeling &amp; Simulation</li> <li>Process Choreography</li> <li>Process Integration &amp; Synchronization</li> <li>Human Workflow</li> <li>Partner Management</li> <li>Process Monitoring</li> </ul>
Automate	Information Integration	<ul style="list-style-type: none"> <li>Master Data Management</li> <li>Data Movement &amp; Publishing</li> <li>Data &amp; Content Federation</li> <li>Information Analysis &amp; Modeling</li> <li>Data Quality &amp; Semantic Reconciliation</li> <li>Information Transformation</li> <li>Enterprise Search</li> </ul>
Integrate	Application Integration: Advanced Interactions and Connections	<ul style="list-style-type: none"> <li>Protocol Switching</li> <li>Message Processing</li> <li>Payload Transformation</li> <li>Complex Event Processing</li> </ul>
Connect	Application Integration: Message Transport	<ul style="list-style-type: none"> <li>Transport Routing</li> <li>Transactional</li> <li>Highly Scalable</li> <li>Reliable Delivery</li> </ul>

# Product Mapping

	Capability	Previous Version	Version 6.x
Automate	People Integration	<ul style="list-style-type: none"> <li>▪ WebSphere Portal</li> <li>▪ WebSphere Everyplace Mobile Portal</li> <li>▪ WebSphere Everyplace Access</li> <li>▪ WebSphere Everyplace Connection Manager</li> <li>▪ WebSphere Client Technologies</li> </ul>	<ul style="list-style-type: none"> <li>▪ WebSphere Portal</li> <li>▪ WebSphere Everyplace Mobile Portal</li> <li>▪ WebSphere Everyplace Deployment</li> </ul>
Automate	Process Integration	<ul style="list-style-type: none"> <li>▪ WBI Modeler &amp; Monitor</li> <li>▪ WBI Server Foundation</li> <li>▪ WebSphere MQ Workflow</li> <li>▪ WebSphere Interchange Server</li> <li>▪ WBI Connect</li> </ul>	<ul style="list-style-type: none"> <li>▪ WebSphere Business Modeler</li> <li>▪ WebSphere Business Monitor</li> <li>▪ WebSphere Process Server (New)</li> <li>▪ WebSphere Partner Gateway</li> </ul>
Automate	Information Integration	<ul style="list-style-type: none"> <li>▪ WebSphere Information Integrator</li> <li>▪ WebSphere Product Center</li> </ul>	<ul style="list-style-type: none"> <li>▪ WebSphere Information Integrator (8.2)</li> <li>▪ WebSphere DataStage Server</li> <li>▪ WebSphere QualityStage Server</li> <li>▪ WebSphere Product Center</li> </ul>
Integrate	Application Integration: Advanced Interactions and Connections	<ul style="list-style-type: none"> <li>▪ WBI Message Broker</li> <li>▪ WBI Adapters</li> </ul>	<ul style="list-style-type: none"> <li>▪ WebSphere Message Broker</li> <li>▪ WebSphere DataStage TX (Ascential)</li> <li>▪ WebSphere Adapters</li> <li>▪ WebSphere Information Integrator &amp; DataStage Adapter Suites</li> </ul>
Connect	Application Integration: Message Transport	<ul style="list-style-type: none"> <li>▪ WebSphere MQ</li> </ul>	<ul style="list-style-type: none"> <li>▪ WebSphere MQ</li> <li>▪ WebSphere Application Server (Messaging Resources)</li> </ul>

# WebSphere Process Server and the ESB

- Data Format: XML
- Transport: WebSphere messaging resources
- API: JMS (Destinations, Topics)
- Clients: J2EE Applications

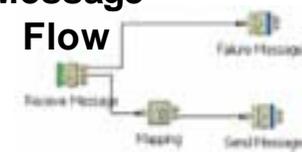


J2C Adapter Applications ↔ J2EE Applications (JMS)

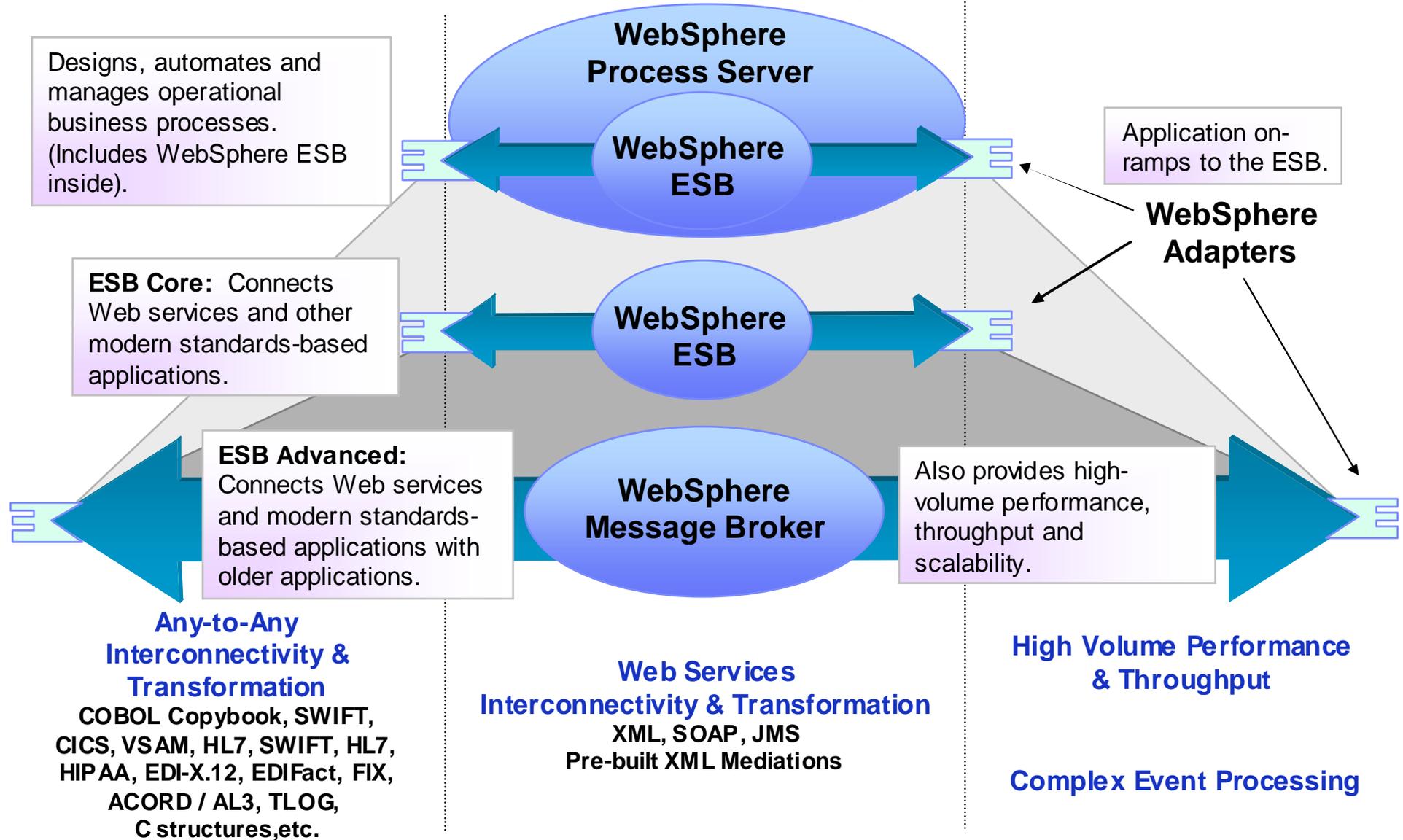


- Data Format: XML, CSV, Cobol Copybook, Custom, ...
- Transport: WebSphere MQ, JMS, SCADA, HTTP, ...
- API: JMS, MQI
- Clients: Any WMQ / JMS Application

WMQ based Application    WBI Adapter Application    Mainframe Application    J2EE Applications (WMQ)    Content based Pub/Sub    Message Flow



# SOA: How the IBM products work together



## WebSphere Process Server and existing Process Integration Products

- **WebSphere Process Server replaces existing products as the lead product for new Customers and new Projects**
  - WebSphere Business Integration Server Foundation
  - WebSphere InterChange Server
  - WebSphere MQ Workflow
- **WebSphere Process Server interoperates with existing products**
  - Reuse and combine business process elements in SOA, to address changing business needs
  - No immediate migration required

## WebSphere Business Integration Server Foundation

- **WebSphere Process Server replaces WebSphere Business Integration Server Foundation**
  - Process Server contains every capability of Business Integration Server Foundation
  - Customers can migrate their development artifacts
  - Customers will be able to upgrade their servers once the binary compatibility support has been added (tentative: 1Q/06)
- **Interoperability**
  - Web Services

## WebSphere MQ Workflow

- **Continue to sell WebSphere MQ Workflow when**
  - Adding new workload to existing implementations
    - Current and new projects with existing clients
  - Implementing a business partner solution
    - Reusing existing skills and experience on time-critical schedule
  - Customer has standardized on competing environment for user clients
    - Workflow web clients that need to be deployed to pre-existing Web server farms
    - Workflow “fat” clients (C, C++)
- **Interoperability**
  - Web Services (WMQWF SupportPac WA07)
  - Interoperability Support Pac WA0C (to be updated)

## WebSphere InterChange Server

### ■ **Continue to sell WebSphere InterChange Server when**

- Adding new workload to existing implementations
  - Current and new projects with existing clients
- Implementing a business partner solution built on ICS
- Reusing existing skills and experience on time-critical schedule
- Customer uses competing application server and is resistant to WAS
- Event Sequencing is needed and
  - a clustered environment is not required
  - a services engagement to implement on the front end is unacceptable

### ■ **Interoperability**

- Web Services (Adapter inbound, native to WICS 4.3 outbound)
- Shared Relationship Database

# WebSphere Software Platform – Development Tools

Role	Description	Tool
Business Analyst	Modeling business processes for optimization or to reengineer existing business processes or define new business processes	WebSphere Business Modeler
Integration Developer / Specialist	Visual tools to configure integration logic with existing and new applications and humans in the network	WebSphere Integration Developer
Software Architect	Model-driven development environment that automates the translation from design to implementation. Includes requirements and business modeling integrations with RequisitePro and WBI Modeler	Rational Software Architect
J2EE / Java Application Developer	Comprehensive integrated development environment, for Web, Java, Web services, Portal, and EJB development with visual tools that accelerate application development.	Rational Application Developer
Enterprise Developer	Tools for maintaining legacy assets and extending them to new users to enable those assets to be used in Service Oriented Architectures (SOA) and as Web services	WebSphere Enterprise Developer

# WPG Integration with Internal Business Processes

