

Smart Steps for Increasing Business Agility with WebSphere

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Abstract

WebSphere delivers capabilities to maximize Business Agility

WebSphere is a family of IBM products that empower business and IT professionals to create an agile business through dynamic business processes and infrastructure technology.

This presentation is focused on the key parts of the WebSphere portfolio for System z in terms of Infrastructure, Connectivity and Process Management with specific attention to CICS, WebSphere Application Server, Business Events, ILOG and our supporting Tools sets for CICS and Problem Determination.

The presentation will bring out the key value propositions for these products especially how the products integrate and interact to create effective business solutions through innovation and performance. Included is the latest information on pricing options that encourage the deployment of even emerging workloads on z/OS.



Disclaimer

Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.



To Survive... To Thrive... To Succeed

Business Agility

to take advantage of new revenue opportunities and address competitive threats

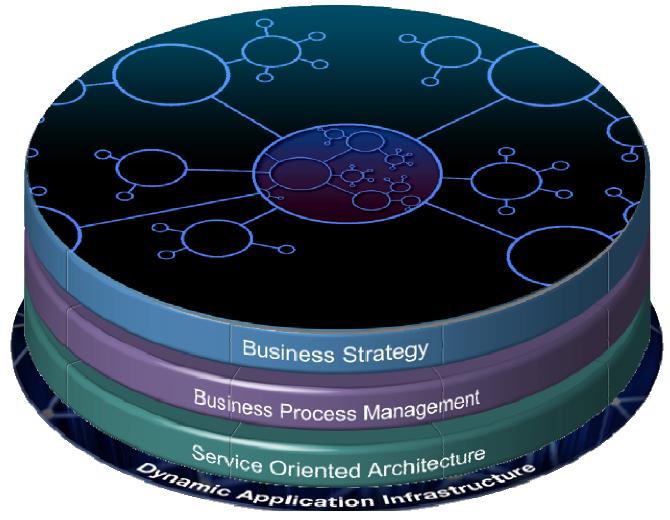


Cost Optimization

to slash operational and maintenance expense and maximize efficiency necessary for all economic climates



A dynamic network requires business agility...



...supported by a Dynamic Application Infrastructure



Three ways to drive Agility while Optimizing Costs

Business Needs

Common Buying Scenarios

"Ensure applications consistently deliver on business needs in all situations"



Dynamic Application Infrastructure

"Adapt & respond to dynamic business situations"



SOA Connectivity & Integration

"Quickly respond to changing customer expectations and business demands"

6



Business Process Management



The power of a Dynamic Application Infrastructure

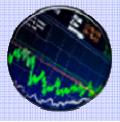


Modernize Applications



Expand client offerings using existing business data with Web 2.0

Execute High Volume Transactions



Reduce business risks with highly available, secure applications

Capitalize on dynamic situations



Timely insight with low cost situational applications

Manage worldwide operations



Rapidly introduce new capabilities throughout the business with centralized administration



Modernizing the Enterprise Through SMART SOA

Static Business **Assets**

Mainframe Core Business Apps CICS® IMS™

System z

Non-SOA **Legacy Apps**

UNIX & x86

Non-IBM Software Stack natural Adabas etc.

System z

SMART SOA

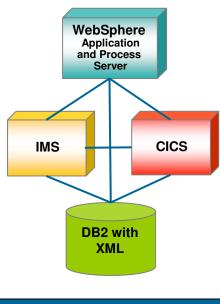


- Upgrade infrastructure
- New capabilities

Transform

- Preserve core Investment
- Tooling & Services

Foundation





- Improved Performance and Scalability
- Higher Quality of Service
- Transaction Integrity

Optimized Assets, Skills, and Infrastructure

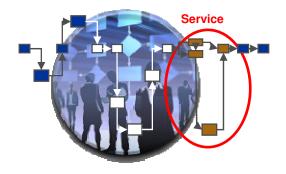


Rules-based



Event-driven

- **Optimize cost**
- Increase flexibility
- **Boost productivity**
- Maximize business agility





HUK-COBURG





Industry Pains

- Need to access more functionality and spread out its data processing load
- Reduce CPU usage to cut operating costs

Smarter Business Outcomes:

- Reduces CPU usage for CICS technology by 400 million instructions per second (MIPS), for savings of \$320,000
- Cuts CPU usage in the internal coupling facility by 40%
- Achieve CPU savings through threadsafe functionality



Why Dynamic Application Infrastructure?

Deliver on business objectives and reduce operating costs



The Right Platform for Any Situation

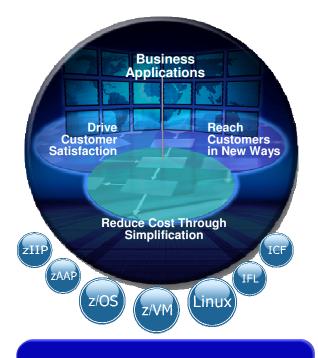


Modernize and transform your environment

IBM WebSphere Application Server for z/OS

Performance, Security and Innovation

IBM WebSphere Compute Grid for z/OS



IBM Problem Determination Tools for z/OS

IBM CICS Transaction Server

Understanding, Optimization and Control

IBM CICS Tools



Combining Industry Leading Runtimes and z/OS Delivers Superior Customer Value



Business Applications

Value-add Middleware

Open Standard Application Programming Models



CICS WebSphere Application Server for z/OS

Passive Qualities of Service

Value attributes of the operating system

Active Platform Exploitation

- Workload Mgmt
- Security
- Transaction Mgmt
- Thread Management
- Scalability
- Recovery

Value attributes of the hardware



Achieving Maximum Performance Through Currency

Runtimes

- WAS V7 vs. V6.1 up to:
 - 42% faster for J2EE apps
 - 47% faster for Web Services
 - 70% faster for Java EE apps



Compilers

- z/OS XL C/C++ v1.11
 - Improved a customer application ~20%
 - Enhanced system programming capabilities

DayTrader1.2

WAS V6.1 to WAS V7 Performance Improvement

Runtime Configuration

Supporting latest Middleware and tools

Hardware

- Generation to generation price / performance gains
- Unique value of specialty engines
- Ability to reduce energy costs by up to 80%



DayTrader2.0



When location matters, why not z/OS? Performance Optimization through collocation



Support for a broad range of Application/Data placement

- Network connection across heterogeneous environments
- Sysplex connection across z/OS images
- Cross memory connection within a z/OS image

When Application and Data are in the same z/OS

- Up to 34% overall CPU savings
- 52% more throughput
- DB2 z/OS: JDBC Local (Type 2) now yields 28%-38% better results
- CICS Transaction Gateway (CTG) Local is 18% more efficient
- 3-year TCO are price neutral



More information

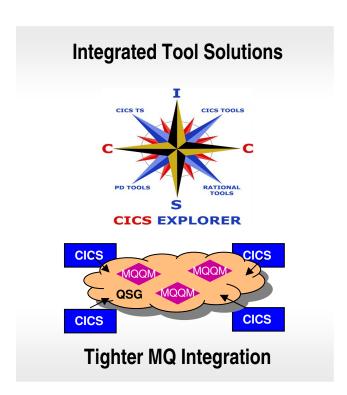
WPS z/OS performance report: in the performance library
WebSphere z/OS co-location paper: in the techdocs library



CICS is at the heart of smart business



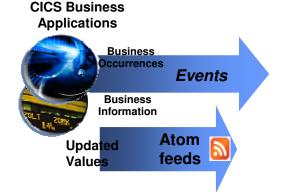
Revitalize Business



"Real-time visibility for smarter decisions and actions"



Event source for Dynamic Business Networks



Integration for LOB and COBOL business rule mgmt.

Revitalize Infrastructure

"Greater efficiency and reduced costs"

Revitalize Applications

"Faster and easier to respond to change"





CICS Explorer – The New Face of CICS Transaction Server Reduce the need for multiple interfaces



Before...



ISPF

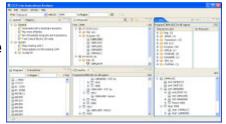
Web



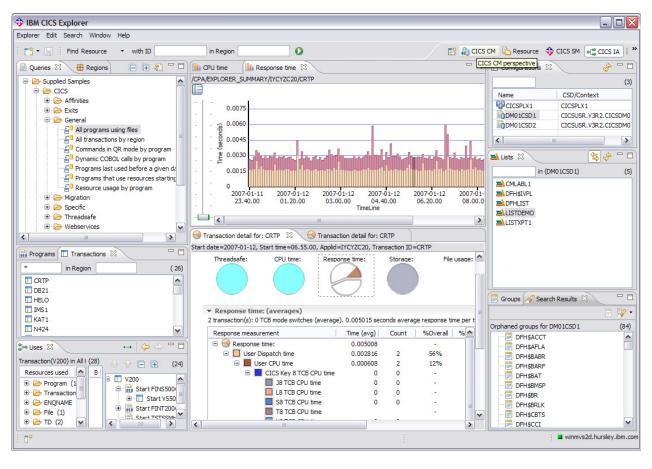
CICS 3270



Eclipse



Now ...



More info and downloads at ibm.com/cics/explorer

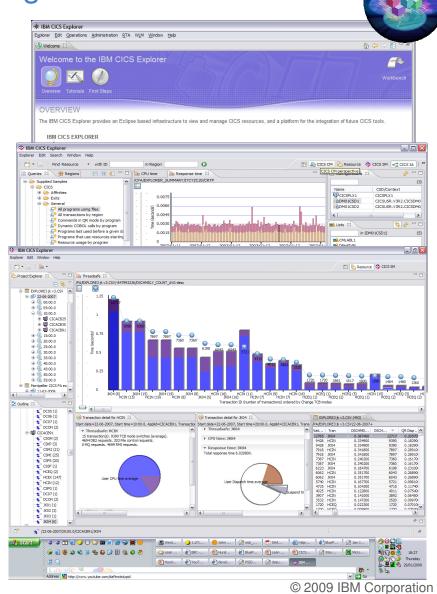




Increase productivity with integrated tools

- CICS Performance Analyzer V3.1
- CICS Interdependency Analyzer V3.1
- CICS Configuration Manager V2.1
- CICS Transaction Gateway V7
- OMEGAMON XE for CICS V4.2
- Rational Developer for System z V7.6

http://ibm.com/cics/explorer/download





Reuse Business Applications Enable Agility Required for Smart Business Outcomes



Get More Value from Applications & Expand Business Opportunities

- Service-enable existing packaged and existing apps
- Create new, reusable services
- Extend reusable services to the web
- Consume external reusable services

Small Large Homegrown Packaged **Package Apps** Apps Apps COBOL Java email z/TPF CICS **IMS**

Benefits

- Extend ROI by reusing prior investments
- Reduce risk and costs by leveraging robust applications
- Speed time to market with faster development cycles



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Business Process Management



An edge in the market – SOA Connectivity & Integration



Confirmed Flight Booking



Lower process disruptions with reliable data movement

Central Airport Checkpoint



Create new revenue-generating services from current core business applications

Routing Bank Transactions



Adapt business faster by easily connecting services & apps

Centralized Information Source



Reduce cost & duplication by leveraging existing assets



Ball State University





Industry Pains

 The need to streamline administrative systems and ensure integrity

Smarter Business Outcomes:

- SOA with Enterprise Service Bus to connect siloed applications without hand-coding individual API calls
- Resolve name and address discrepancies in 10 months, as opposed to several years



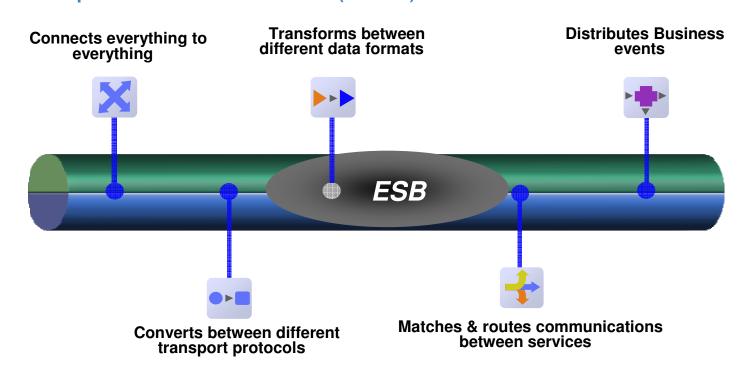
Why SOA Connectivity & Integration?

Communication between decoupled back and front ends, choosing the destination for a message, and transforming it into the correct format



Agility and savings begin with Integration The Enterprise Service Bus (ESB)





Optimize Costs by: Integrating new customers and partners up to 80% faster, Improving performance more than 10x - with lower costs, and Achieving full ROI within as few as 6 months

IBM WebSphere Message Broker for z/OS

IBM WebSphere Enterprise Service Bus

IBM WebSphere MQ for z/OS



Service Visibility & Governance





- Trust: Publish & find Your
 Services to extend business
 applications
- Manage & govern your ESB messaging & services
- Secure: Ensure consistent policy enforcement

IBM WebSphere MQ File Transfer Edition for z/OS

IBM WebSphere Service Registry & Repository for z/OS



Governance for File Transfers WebSphere MQ File Transfer Edition



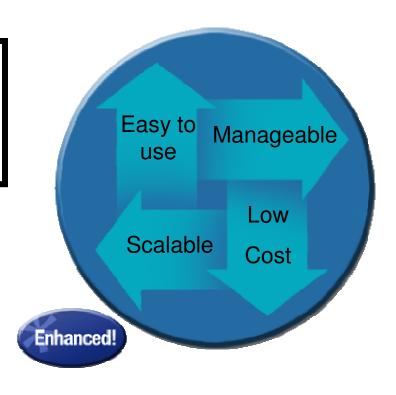
- Most data moves from application to application using file transfers
 - Lowest common denominator for Integration
- Provide the visibility & manageability to move key business data reliably & securely
 - Inside and outside the Enterprise

Reducing Costs

- •Lower maintenance upkeep by 15%-25%
- 50% to 70% reduction in file management cost

IBM WebSphere MQ File Transfer Edition

- Builds upon MQ's proven transport
- Delivers robust solution for Managed File Transfer
- Purpose-built to integrate with IBM's SOA portfolio





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Business Process Management



The power of Business Process Management



Supply Chain Management



Automatically adjust forecasts and shipments to increase accuracy and reduce costs

Retail Inventory



Detect and respond to inventory changes in real-time to meet customer demands

Telecom Services



Quickly deliver more compelling and profitable service bundles to increase customer retention

Insurance Claims Processing



Improve productivity and customer satisfaction by automatically routing claims to the right knowledge worker



"European Bank"



European Bank

Industry Pains

- The market for home loans has been transformed by a new breed of independent mortgage brokers who now account for 40 percent of the market
- To respond to this marketplace change they needed a channel to reach these brokers

Smarter Business Outcomes:

 Mortgage application processed in just hours compared with 2-3 days taken by competitors; independent mortgage broker channel now accounts for substantial portion of their business after only 6 months, far exceeding expectations; new channel added without significantly increasing staff levels



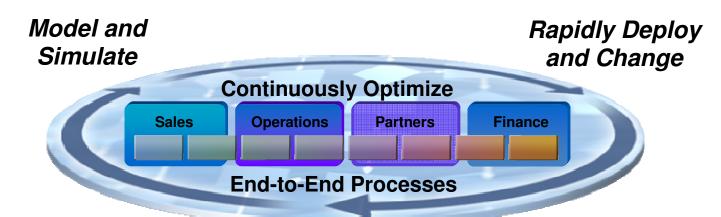
Why Dynamic Business Processes?

WebSphere Process Server improved the reuse and efficiency of service components to reach the independent mortgage broker market



Process Automation Improves operating efficiency and reduce costs





Monitor, Predict and Act



Streamline business activities

Lower Costs

IBM WebSphere Process Server for z/OS



Complement and extend existing applications

Reduce cycle time

IBM WebSphere Business Monitor



Leverages reusable process components

Easier to Manage

IBM WebSphere Business Modeler



Insight contained in business events all around us



What is a Business Event?

An action that has occurred, or the absence of it occurring, which has relevance to the business

Nearly **4 Trillion** RFID events are emitted each day



Large companies can experience up to **800 Billion** business events (shipments, weather, customer contacts, delays) daily



Over **190 Billion** emails are sent daily

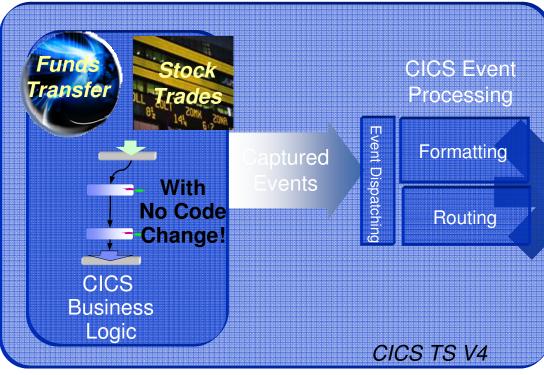




Capture mainframe events for smarter business outcomes







Detect fraud and take action



WebSphere Business Monitor



WebSphere Business Events









Other Event
Consumers

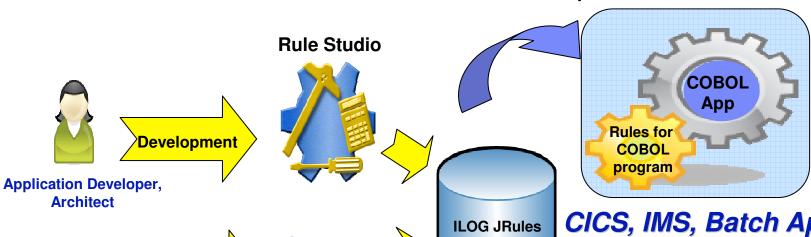


Management

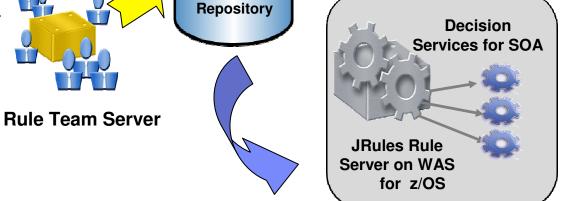
Business Analyst, Business Manager

ILOG Business Rule Management Solutions on System z





Rule Repository CICS, IMS, Batch Applications

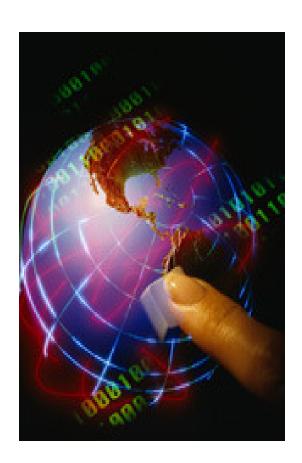


Option 2: JRules Rule Execution Server on z/OS or Linux on System z



Benefits of a Dynamic Application Infrastructure on System z

- Integration with Existing Assets
- High performance
- Server consolidation
- Dynamic scalability
- 99.999% Availability
- Exploitation of Java/J2EE
- Uninterrupted support
- Low TCO of applications
- Performance Optimization through collocation





Impact 2010 HIGHLIGHTS

Impact 2010 - The Premier Conference for Business and IT Leaders

Discover new innovative ways to work smarter and achieve business agility now. Impact 2010 provides a unique setting to bring company executives and technologists together at a single event providing a unique opportunity for them to discover how to align business objectives with IT, interact with technology and business leaders and experts from around the world and ultimately optimize their business performance and results.

A new Business Program that will focus on:

- optimizing business processes
- improving decision management
- empowering the changing workforce, and globalization

An enhanced Smart SOA and BPM Technology Program:

Dedicated with tailored workshops and hands on labs

A bigger focus on your industry!

300+ industry leading experts on site

A new Interactive Symposium

Bringing LOB and IT together in consultative sessions

A new Product Technology Center offering:

Open labs, tech zones, and product demos

A new and improved Track structure with:

200+ client speakers,50 Birds of a Feather sessions, & free certification testing

A state-of-the art Solution Showcase Center!



Join us in Las Vegas The Venetian Hotel May 2 to 7, 2010

www.ibm.com/impact



Let's Build a Smarter Planet on System z





