

Leveraging Service Oriented Architecture to Thrive in a Dynamic Market Place

Yvonne Perkins Vice President Enterprise Platform SW / SWG





1 billion transistors for each person on earth.

101



1 billion people are connected to the internet

By 2010, 30 billion RFID tags, embedded into our world.

THINK



1010111011101

01101011100



IBM Vision at a Glance...

Smarter Planet

- instrumented
- interconnected
- intelligent





The Need for Action is Clear



The U.S. healthcare system loses more than \$100 billion a year to fraud.

> \$11.5B worth of produce is wasted in India because of outdated post-harvest infrastructure

> > In North America, up to 22 percent of total port volume is empty containers.



Today's Imperatives Are

Cost Optimization

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

Agility

to take advantage of new revenue opportunities and address competitive threats

To Survive... To Succeed!

╇

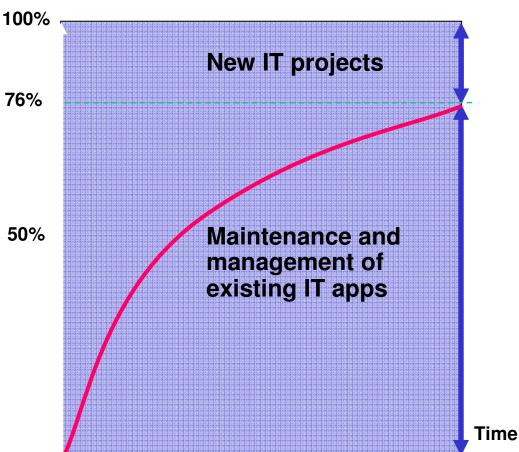




Where are IT Budgets Being Spent?

I.T. Budget







Is Your Company Agile Enough?

98% Of CEOs plan business model changes

3X Increase in gap between expected change and ability to handle change

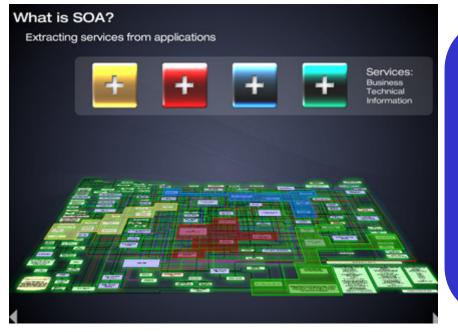


In a Time of Turbulent Change

Source: CIO Study conducted in 2008: http://w3.ibm.com/articles/workingknowledge/2008/12/gbs_ceostudy.html



Service-Orientation, key to Agility and Cost Optimization



- Quickly shift direction to reflect economic realities
- Flexibly connect information and application
- Optimize reuse of existing assets

Unlock the value of your own... ...Business Resources ...Application Resources ...Infrastructure Resources



Three Ways SOA Projects Deliver Value

Business Needs

"Ensure applications consistently deliver on

business needs in all situations"



Common Buying Scenarios

"Adapt & respond to dynamic business situations"



Connectivity & Integration

Application

Intrastructure

"Quickly respond to changing customer expectations and business demands"



Dynamic Processes

The Power of a Smart SOA Application Infrastructure

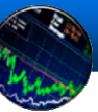


Modernize Applications



Expand revenue opportunities and improve customer satisfaction with Web 2.0

Execute High Volume Transactions



Reduce costly business risks with high availability, secure business applications

Worldwide e-commerce Rollout



Increase utilization, lowering energy and

maintenance costs





Quickly roll out new services and lower operational costs to increase revenue and market share



Smart SOA Application Infrastructure Delivers on Business Objectives and Reduces Cost





lealthcare

- Reduced \$30 million in capital & operating costs
- 150% increase in processing capacity
- 40% reduction in IT infrastructure floor space requirements
- 67% reduction in number of physical servers



Government

- 80% reduction in time to build new systems
- Improved ability to coordinate operations amongst multiple organizations



Manufacturing

- New level of collaboration via Web 2.0
- Reduced Total Cost of Ownership by 40%



Three years ago, we set out to build a shared enterprise IT infrastructure that would allow MetLife to grow with agility...we now have a solid framework for integrating the systems of the companies we acquire."

Bob Fratangelo, Vice President of Distributed Systems at Metlife

HUK-COBURG



HUK-COBURG

Aus Tradition günstig

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 Smart SOA Infrastructure?

Deliver on business objectives and reduce operating costs

Address Your Critical Business Needs Using a Smart SOA Application Foundation





Thriving in a Dynamic Marketplace Intelligent Management of Applications



- Reduce Rising Costs
- Deliver Superior Customer Service
- Roll Out New Services Faster



IBM WebSphere Extended Deployment Compute Grid for z/OS

© 2009 IBM Corporation

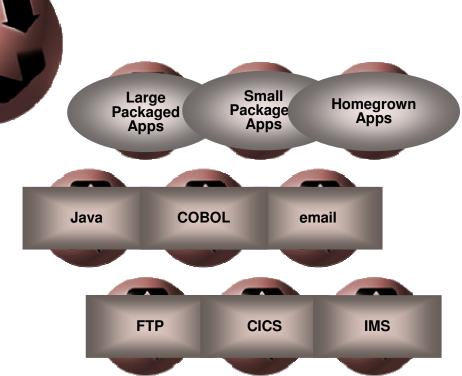
Reuse Business Applications Enable Agility Required for Smart Business Outcomes

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

Benefits

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



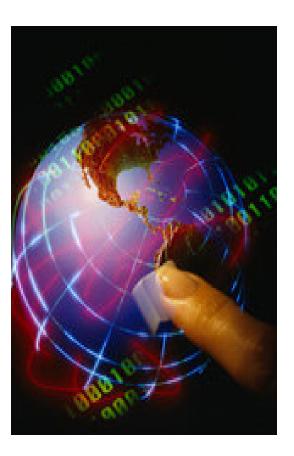




Benefits of Running Applications on System z

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



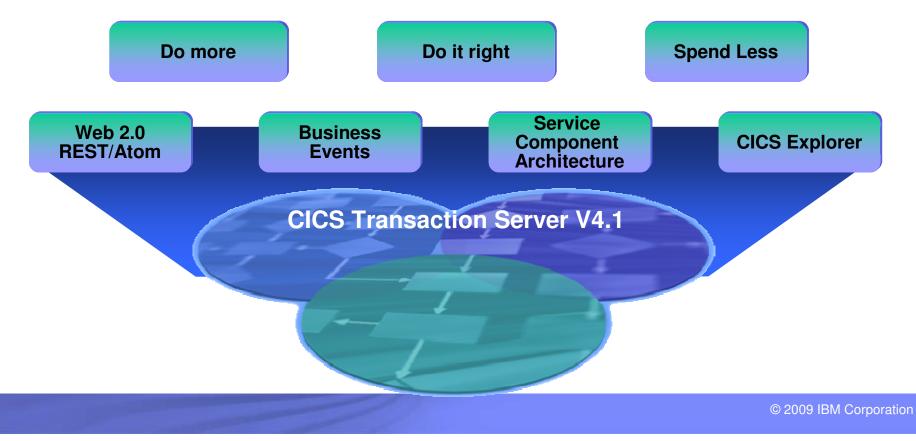




Spotlight: CICS Transaction Server V4.1

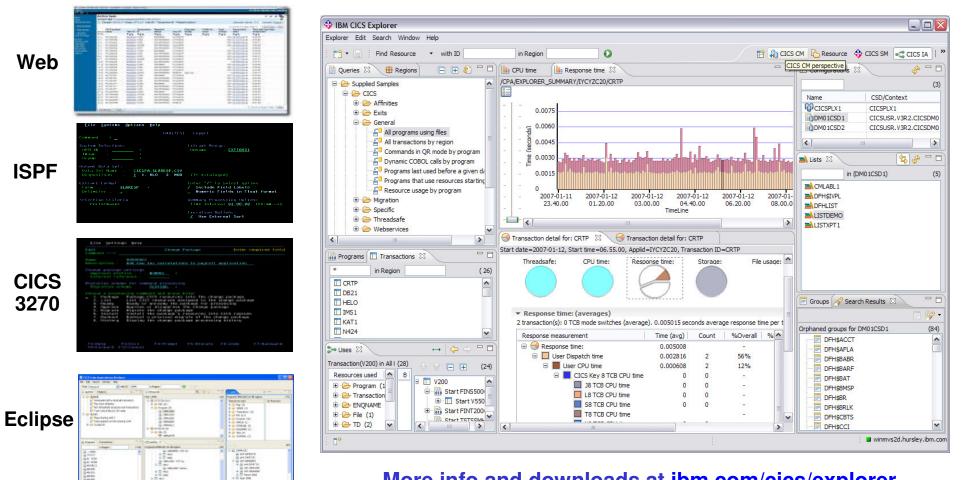


- Compete with insight into business processes and modify business applications quickly
- Comply with corporate, industry, and government policies to manage business risk
- Control costs by simplifying IT infrastructure and productivity through easier-to-use interfaces & functions



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

Before...



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

Now ...



An Edge in the Market – Smart Connectivity & Integration



Confirmed Flight Booking CHECK-IN CONFIRMATION CATABLOW DECKET ITL <u>E-TICKET</u> Mar 25-F Cash Class 239097003

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







Financial Markets

- Delivering \$1 trillion transactions per day
- Exchanging £400B+ in messages



Government

- Agency sends 675m messages per day
- ~ 7,500 agency users & 50,000 citizen transactions daily

Banking

- \$7-\$35 trillion messaging traffic per day
- 213+ million messages daily



surance

- 95% of the top global insurances firms use ESB enrichment Single firm improved transactional elapsed
- time by over 39%



"We needed a single integration platform that would allow all our applications to access and share information and enable them to collaboratively process transactions based on common business rules."

> Chief Architect, Health Insurance



Ball State University





Industry Pains

 The need to streamline administrative systems and ensure integrity

Smarter Business Outcomes:

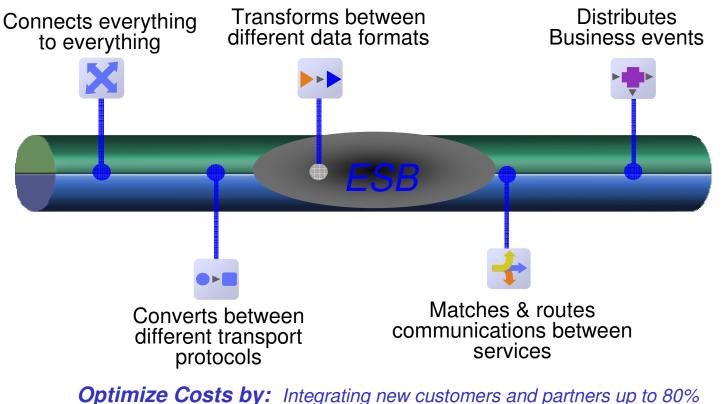
SOA with Enterprise Service Bus to connect siloed applications without hand-coding individual API calls Resolve name and address discrepancies in 10 months, as opposed to several years



Why Smart 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)

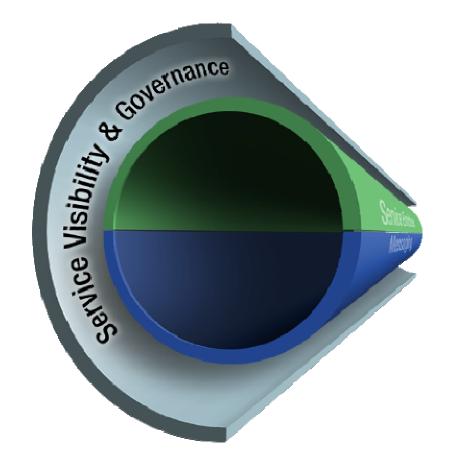


Optimize Costs by: Integrating new customers and partners up to 80% faster, Improving performance more than 10x - with lower costs, and Achieving full ROI within as few as 6 months

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



When to use System z for Connectivity & Integration

WebSphere ESB

Virtualization

- High resource utilization
- Massive consolidation and simplification

Performance

 Improvements when colocating with z/OS data

Efficient growth

Pay for what you use

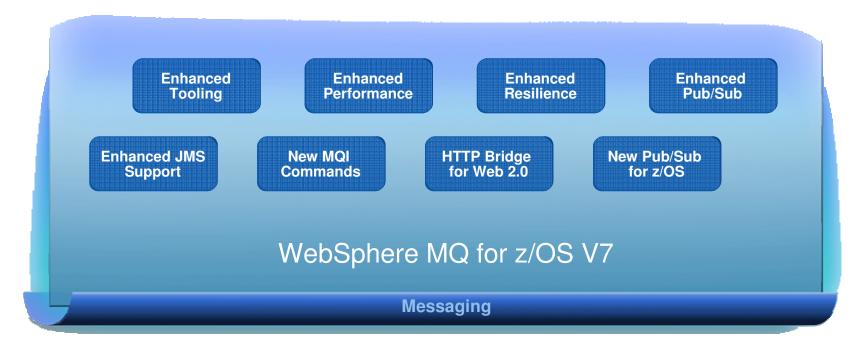
Business critical workloads

- Automated recovery from failures
- Dynamic workload balancing

The Latest Evolution of SOA Messaging

WebSphere MQ for z/OS V7

- Highly consumable & easy to use for faster time to market
- Turbo-charged performance to do more with less
- More dynamic & scalable Pub/Sub features







The Power of Dynamic Business Processes



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

Dynamic Business Processes Deliver Real Results





Supply Chain

- Reduced costs by 63%
- Reduced staffing requirements for manual tasks by 85%
- Reduced compliance penalties by 75%



Governmen

- 80% reduction in tax return exception backlogs
- 80% reduction in average age of work queue, avoiding extra interest costs



nsurance

- Decreased costs by 30%
- Increased revenues by 15%



"...in this era, flexibility and the optimal operation is really needed. We are in the recession time, so optimization is something which is a must for all of us...this is something which is not found in other vendors...Fabric (and the Telco Pack)...gives us a possibility to dynamically select the service based on the policy. ...one of the strong points of IBM BPM SOA solution is that it covers the complete lifecycle of the process, so starting from modeling and ending at monitoring and operating."

Mitja Stular. CTO for Mobitel

"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.

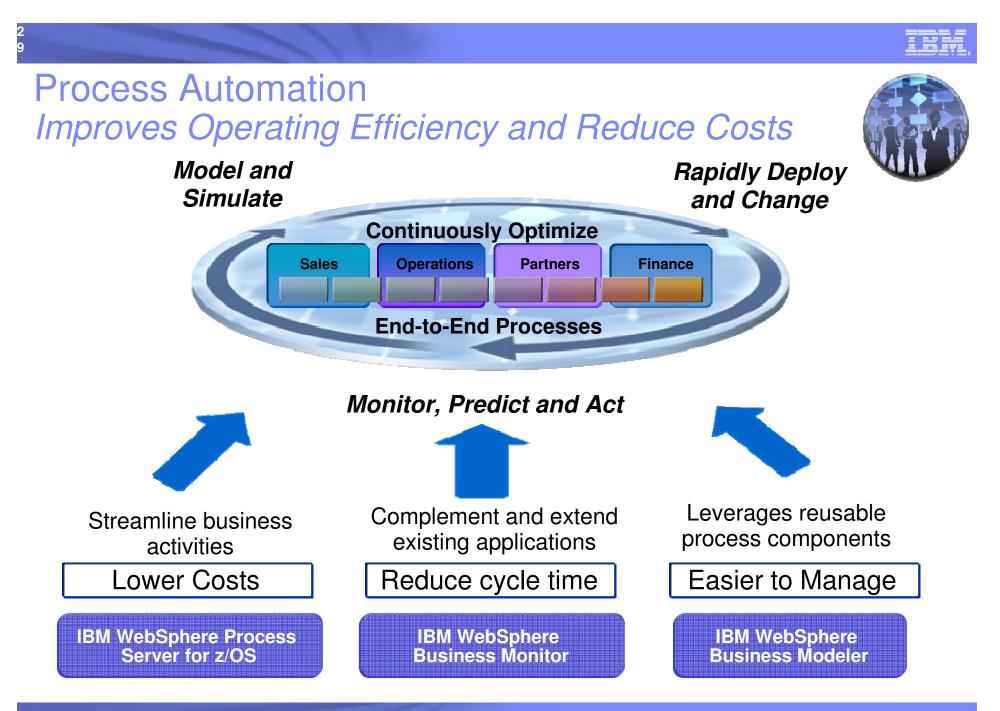
Smarter Business Outcomes:

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 Smart SOA Business Process Management?

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





Insight contained in business events all around us



What is aAn action that has occurred, or the absence of itBusiness Event?occurring, which has relevance to the business

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

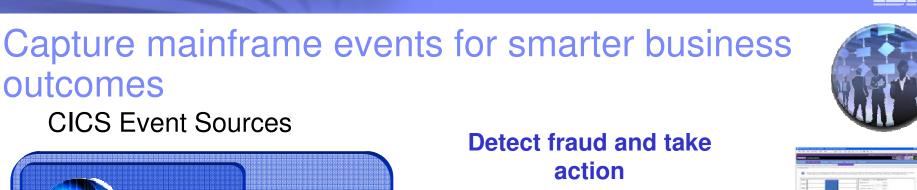


Large companies can experience up to <u>800 Billion</u> business events (shipments, weather, customer contacts, delays) daily



Over **190 Billion** emails are sent daily









WebSphere Business Events integration with WebSphere Business Monitor, Tivoli NetCool and CICS Transaction Server



WebSphere ILOG BRMS and SOA

ILOG BRMS is *the IBM technology* for creating, maintaining and implementing decision services...

- Provides a convenient communication channel between IT and business teams
- Allows for easy implementation and reuse of business rules across the enterprise
- Offers flexible options for progressive IT modernization

	IBM.	SOA
	Specialty	
Reuse BRMS Modernization	Alignment	

Ready for

Watch ILOG customer testimonials at: <u>http://www.ilog.com/dialog/</u>



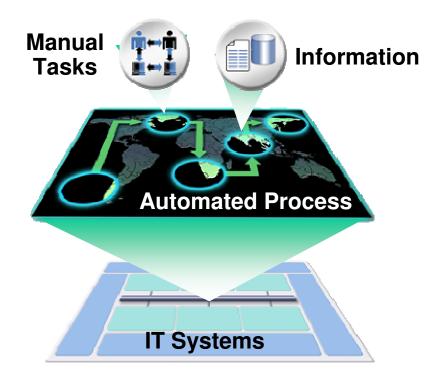
When to Use System z for Process Management

✓Process Efficiency

✓Improve Integration

✓ Reduce Human Processes

Workload Management





WebSphere Process Server for z/OS[®] Application Robust platform that is easy to deploy

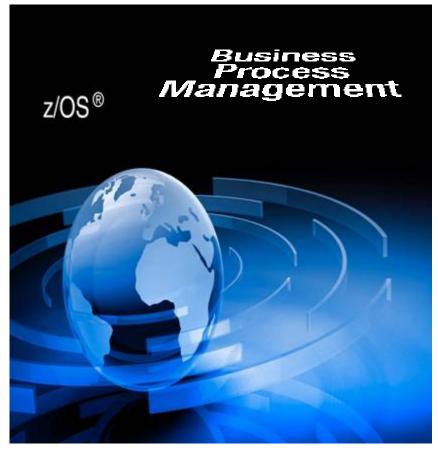
Leveraging a strong SOA foundation on z/OS for process flexibility, responsiveness and access to information assets

New with Version 6.2

- Web 2.0 business user interface to manage human tasks, timetables & orchestrated processes
- Lotus Forms integration for human tasks
- Greater flexibility and control for business rules, ad-hoc tasks & process execution

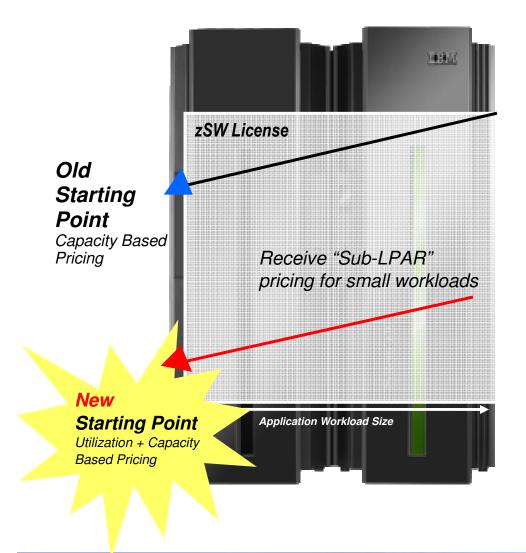
Integration with CICS

- CICS applications can be part of business processes
- CICS events feeding WebSphere Business Events to identify patterns of interest



IBM.

Getting Started Sub-capacity Pricing for z/OS IPLA Software Helping to Make It Easier To Deploy New Projects on z/OS Software



- Help customers start their projects
- Improve alignment between software use and software charges
- Enable greater flexibility with software licensing
- Change LPAR capacity without changing software charges
- ✓ Improve price / performance



Let's Build a Smarter Planet on System z



