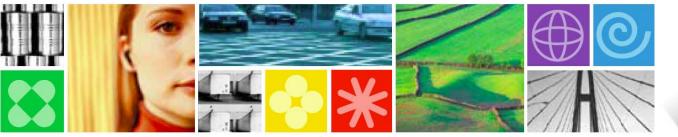


Smart Work On System z

SWG Competitive Project Office





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Service Oriented Finance Automated Its Loan Processing In 2008

We automated our loan processing with WebSphere and it's great! We reduced loan processing time and our loan volumes increased 59%.



Service Oriented Finance CEO, 2008

Changing Business Conditions

But times have changed. We need to be more careful who we loan money to.



Service Oriented Finance CEO, 2009

Change The Rules, Not The Process

It sounds like we need a new business process!

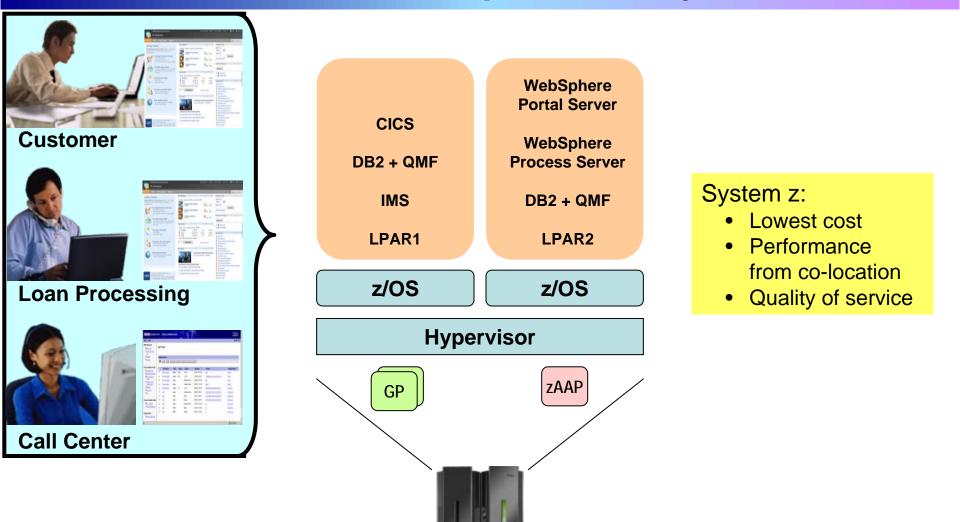


Service Oriented Finance CIO You don't have to replace the process – simply <u>adjust</u> it!

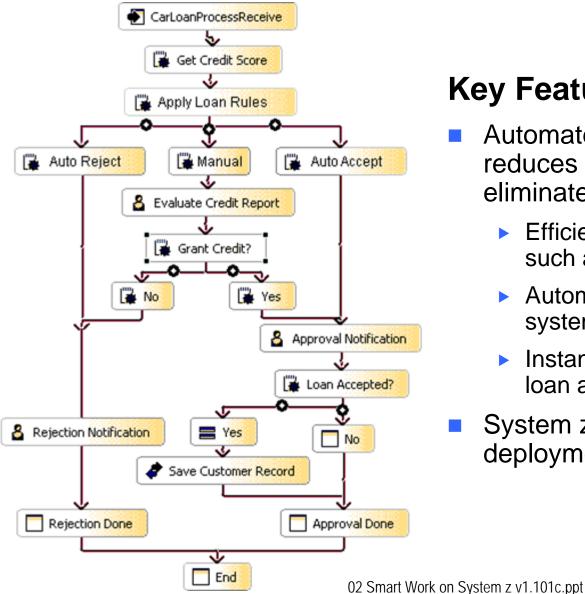


IBM

Service Oriented Finance Automated Their Loan Process With WebSphere On System z



The Current Loan Process



Key Features:

- Automated process management reduces processing time and eliminates paper
 - Efficient inclusion of human tasks, such as manual approval
 - Automatic access to back end systems
 - Instant status and tracking of each loan application
 - System z is the lowest cost deployment platform

DEMO: The Current Loan Process



Tracy applies for a car loan from Service Oriented Finance

New Car OUsed Car
New Car Oused Car
) 24
5000
Individual Application
асу
onway
10 Peachtree Drive
hicago
987
12-456-9092
acy@zcpo.com

What Changes Do You Need To Make?



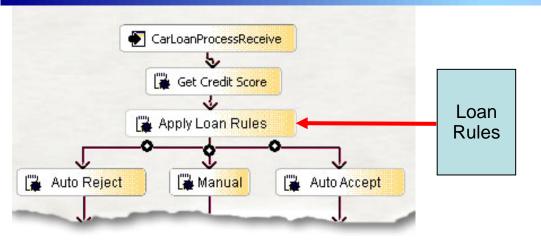


Service Oriented Finance CEO



Service Oriented Finance CIO

Business Rules Let You Adapt Quickly To Business Change



WebSphere Process Server externalizes business rules so they can be adjusted by business managers in production, without requiring development changes to the process

- Business rules are typically used to adjust thresholds
- Business rules easily changed with a browser after the process is deployed
- New rules take effect immediately without having to redeploy

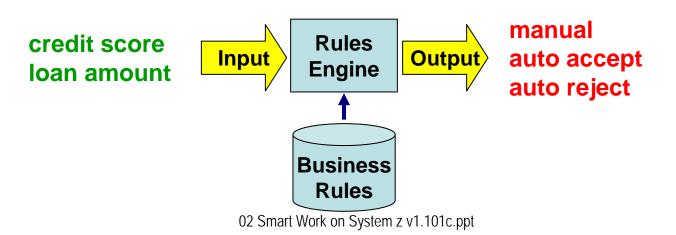
Example: Change The Business Rules

Current car loan rules

- Default analysis result is manual
- If credit score is less than 500 analysis result is set to auto reject
- If credit score is greater than 700 analysis result is set to auto accept

New car loan rules

- Default analysis result is manual
- ▶ If loan amount is greater than 30,000 analysis result is set to auto reject
- If credit score is less than 650 analysis result is set to auto reject
- If credit score is greater than 720 analysis result is set to auto accept



DEMO: Change The Rules

IBM		
inal		
A V		
Delete		
Delete		
Delete		
2. require better credit ratings		
Action		
Add		

SOF's Loan Analyst, JC Feng, needs to change the rules

There Were Some Other Changes Made To The Process

We need a volunteer from the audience who has a mobile phone with text messaging. How about YOU?



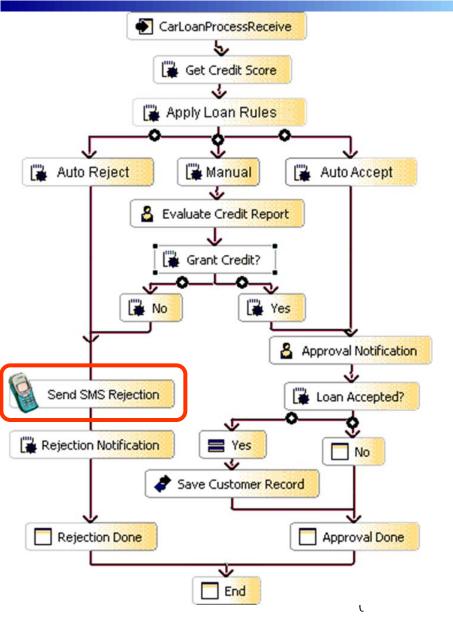
DEMO: The Loan Application With The New Rules



Tracy applies for a car loan from Service Oriented Finance, after the change of rules

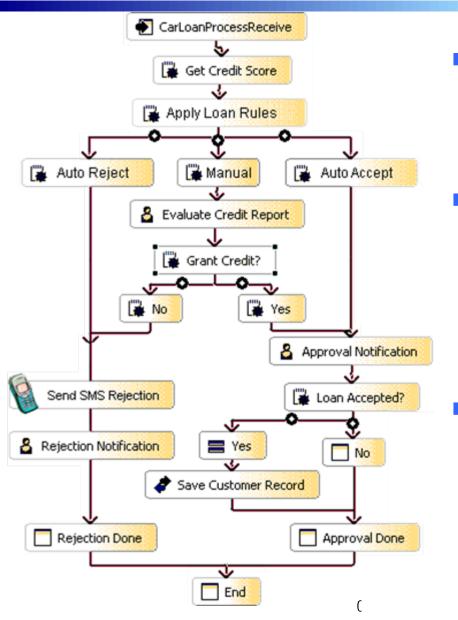
Car Loan Application	
Loan Type:	New Car O Used Car
Loan Term:	O 24 O 36 O 48 O 60 With New Rules!
oan Amount Requested:	45000
Application Type:	Individual Application
	O Joint Application
Customer #:	
First Name:	Tracy
Last Name:	Conway
Address:	110 Peachtree Drive
City:	Chicago
State:	IL
Zip:	10987
Phone:	212-456-9092
Email:	tracy@zcpo.com

Making More Revisions To The Business Process



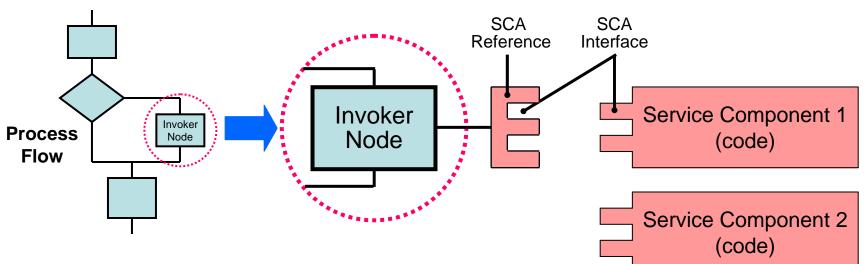
- In the demo we added a notification sent to a mobile phone via SMS using the phone number provided
- It's fast and easy to revise and redeploy an existing business process
 - Change the order of activity steps
 - Add one or more new activities
 - Use a different service provider
 - Service Component Architecture (SCA) makes it easy
 - Tool can easily insert "send SMS alert" activity into flow

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Service Component Architecture (SCA) Is The Foundation For Process Flexibility



Service components can be

- Wired-in to the reference at assembly time
- Changed at assembly time
- And, as we'll see, selected or substituted at runtime

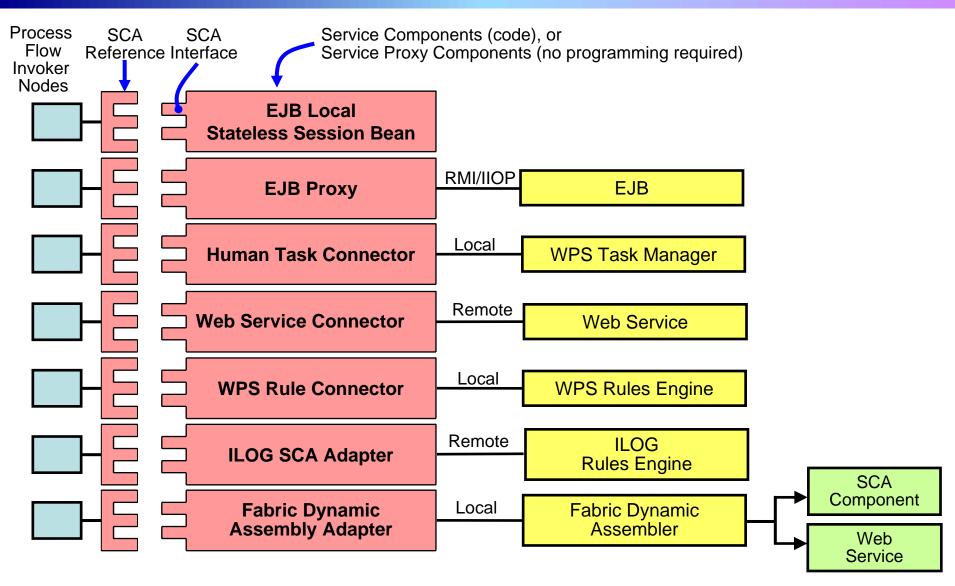
Types of service components

- EJB code
- Proxies to call Web services (e.g. a CICS transaction wrapped as a Web service)
- Proxies to send a task to a human
- Proxies that make decisions about what to do at run time

Service Oriented Finance Needs Even More Flexibility



Process Flex Points Are Built On Service Component Architecture



SOF Is Now An Agile Business, But There Are New Requirements



Service Oriented Finance CEO

IBM can satisfy them!

Local Variations

We want to deploy a common process but we need to handle variations in local environments.

WebSphere Business Services Fabric is unique in its ability to do this!



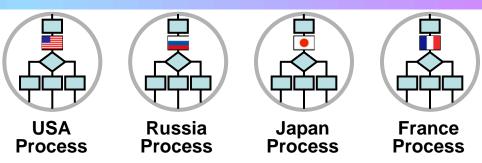
SOF Loan Analyst



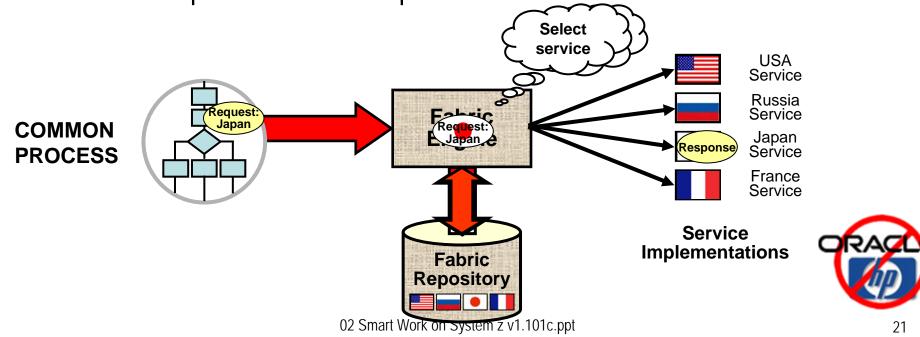


WebSphere Business Fabric Permits A Common Process To Be Adapted To Localities

PROBLEM: Need to deploy same process worldwide, with localized differences



- Customizing separate copies is cumbersome and costly, and complicates version control
- SOLUTION: Fabric supports a common process by selecting, at runtime, the service required for each request



There are many experts that determine our business policies. We need to capture this expertise and use it to make process decisions.

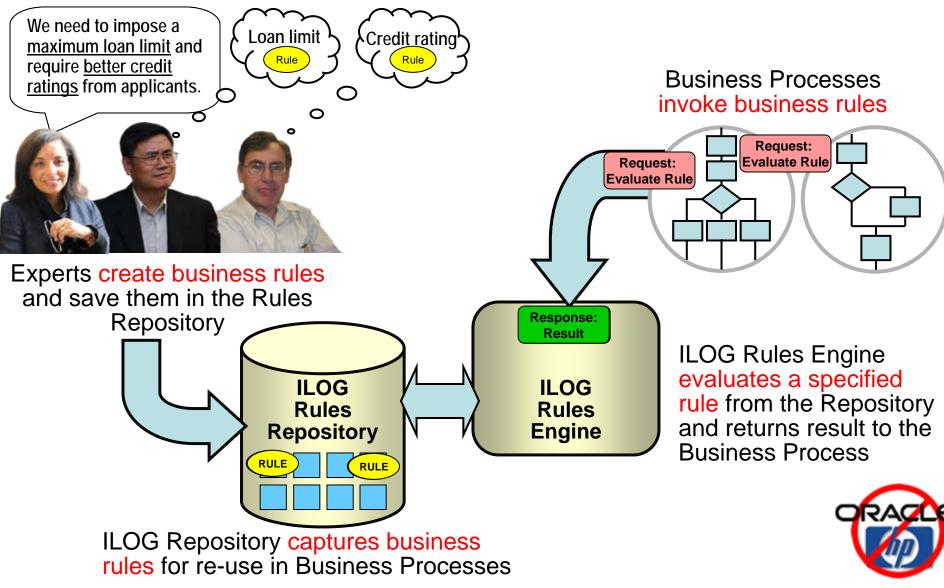


Business User

ILOG is a great way to capture expertise in complex rule sets.

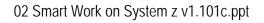


ILOG Captures Expertise As Business Rules For Re-Use In Business Processes



Why Deploy This Process On System z?

- A Smart SOA implementation requires high quality of service from the deployment platform
 - IBM Smart SOA Middleware Runs On System z
 - Workload Management that handles peaks and unpredictable demands of mixed workloads to achieve SLAs
 - Scalability and Clustering
 - Continuous Availability/Disaster Recovery
 - Rock-solid Security
- Running workloads on the same logical partition provides benefits for performance, security and management
- Lowest Total Cost of Ownership



IBM Smart SOA Middleware Runs On System z

- WebSphere Application Server NEW! v7 for z/OS deploy applications and services on a robust, secure, and performant platform
- WebSphere Enterprise Service Bus built on WAS, WESB adds message routing and transformation for services
- WebSphere Process Server built on WESB, WPS adds standards-based business process management and runtime support
- WebSphere Service Registry and Repository a directory of available services suitable for development and assembly; supports WESB routing and transformation
- WebSphere Business Events detect critical patterns of business events that lead to taking action proactively, through notification, or running a service or business process
- WebSphere Business Services Fabric allows a business process to determine the best service at runtime by examining the business context. Especially helpful for allowing a common business process to be used with channel- or locale-specific variations.
- WebSphere Business Modeler Publishing Server Allows users to validate BPM assets with subject matter experts to create best practice process models and optimize processes
- WebSphere Business Monitor adds portal support to view trends or status of currently-running business processes, and take action on individual processes as required
- ILOG jRules adds business rule management to capture the knowledge of experts, and enhance reuse of business rules



Co-location Performance Advantages

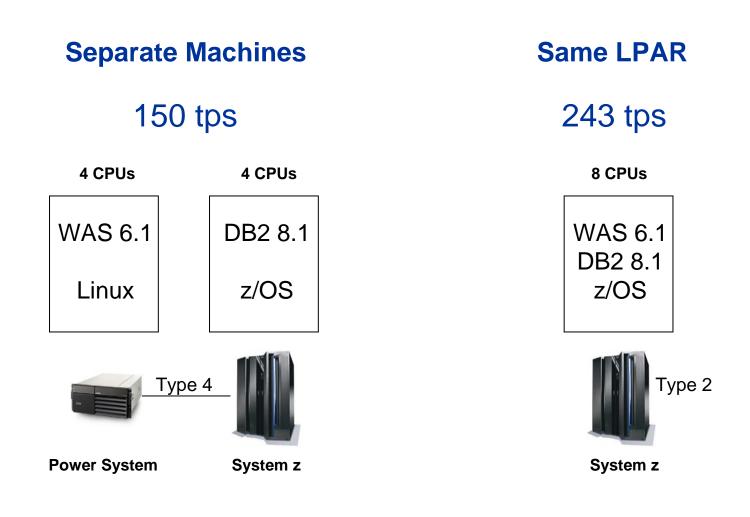
Simplifying multiple physical tiers to a single tier provides tighter security, enhanced management, reduced costs, simplified configurations and performance gains

- Example: WAS and DB2 in same LPAR, compared to different LPARs
 - 52% more throughput when WebSphere Application Server is located in the same LPAR with DB2
 - Up to 34% overall CPU savings with WebSphere Application Server and DB2 on the same LPAR

NEW in WAS z/OS v7: WOLA provides cross-memory access to improve communications speed with backend apps (CICS and batch) in the same LPAR

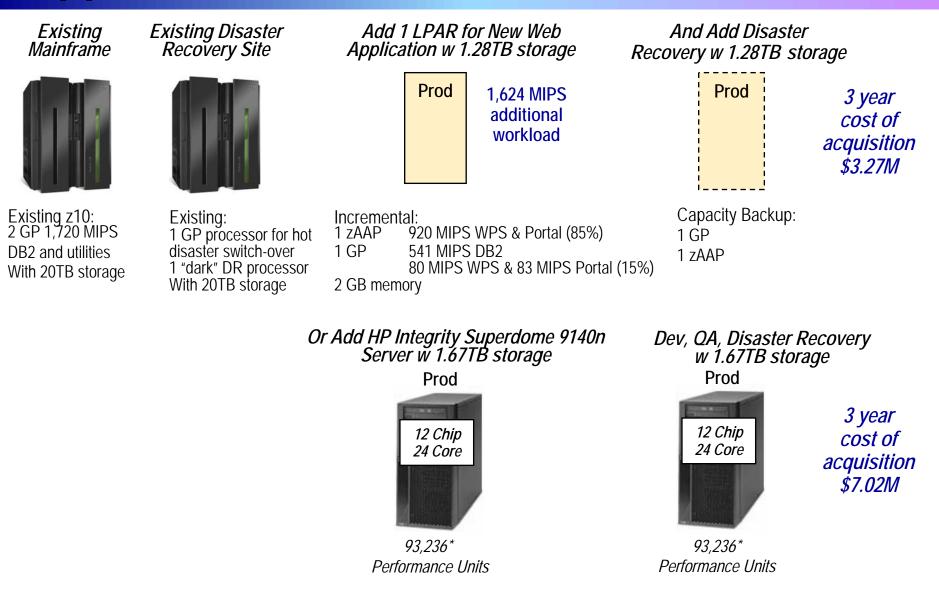


On-line Banking Benchmark Demonstrates Performance Advantages Of Co-location



z Series Server : z9-EC, 8 X 1.7 GHz, 64 GB RAM

Deploy WebSphere Process Management Application On Mainframe vs. HP Servers



*Production Performance Units required = 541 x 87 + 1083 x 42 = 92,553