

System z Enables Solutions For A Smarter Planet

Smart Work On System z

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

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Changing Business Conditions

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



Service Oriented Finance CEO, 2009

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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
24 🖲 36 🔿 48 🔿 60 🔿 72
5000
Individual Application
Joint Application
racy
onway
10 Peachtree Drive
hicago
0987
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

Welcome FENG Logout	Help			
> AnalyzeCreditScoreRuleGroup > exec	outeRule			
Edit Mode:AnalyzeCredit	tScoreRuleSet - Ru	leset		
Save Cancel	Messages:			
General Information				
Last Published	Feb 24, 2009 07	(:45 (Local Time) S	tatus	*Original
Description				*
Description				V
Rules				
Close Template List				
Name	Rule		Action	
ManualRule1	Set default analysis resul	t to Manual 🔽	÷.	Delete
AutoBeiect	core is less than	500 then analysis result is Auto Reject 💌	.	😚 Delete
🚺 1. impose a max	i mum)s greater th	an 700 , then analysis result is Auto Accept 🔽		😚 Delete
loan limit	$\overline{\boldsymbol{\lambda}}$			
≻ 2. require better	credit	hutton		
ratings		button.		
Terh	<u> </u>	Rule		Action
AutoRejectRule		If credit score is less than 🗌 then analysis result is Auto Reject 💌		Add
Template_AutoAcceptRule		If credit score is greater than 📃 , then analysis result is Auto Accept	-	Add
Template_MaxLoanRule	MaxLoanRule	If Ioan amount is greater than 30000 , set analysis result to Auto Re	eject 💌	Add
Template_ManualRule1		Set default analysis result to Manual		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 ○ Used Car
Loan Term:	
.oan Amount Requested:	45000
Application Type:	 Individual Application 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
- 1	

Submit Application

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

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



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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!

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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.



IBM

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
 - Smart SOA Software Runs On System z
 - Workload Management to handle peak demand
 - Scalability and Clustering
 - Continuous Availability/Disaster Recovery
 - Rock-solid Security
- Running on the same server provides performance advantages
- Lowest cost!



IBM Smart SOA Software Runs On System z

- WebSphere Process Server
- WebSphere Enterprise Service Bus
- WebSphere Application Server
- WebSphere Service Registry and Repository
- WebSphere Business Events
- WebSphere Business Services Fabric
- WebSphere Business Modeler Publishing Server
- WebSphere Business Monitor
- ILOG jRules



Co-location Performance Advantages

- Mainframes already house the core DB2, CICS and IMS applications and data for the business
 - Quickly expose these assets as services
- Deploying WebSphere Process Server, WebSphere Portal Server, and the assets they use in the same LPAR provides better performance and throughput



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