

Business Applications: Process, Events, Rules

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Rules Product Management Lead



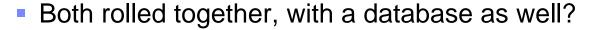


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What defines an application?

- A point-in-time transformation of data?
 - c. f. Batch, Client Server
- A wrapper for a user transaction?
 - c.f. CICS, JEE, Client Server



- c.f. IMS, 5GLs
- A business process, and all it's necessary support and correspondents?
 - c.f. WPS and WebSphere stack, SOA





What is an application?

- An <u>automated</u> means for accomplishing an <u>organizational objective</u>?
 - Automated: That's why we're talking to IT professionals today
 - Organizational Objective: This is why your company hired you in the first place:
 - Do it well and your organization thrives
 - But understand that it will have to change tomorrow



Factoring Applications for the Dynamic Enterprise

- How see a publem, depends on how you look at it!
- Components of an application (IT View)
 - D ta
 - Cou
 - User interraces
- Components of an application (business objectives view)
 - Triggering events
 - Processes
 - Decisions

(Triggering) Events

- Organizations need a reason to do something
- Can be simple and predictable:
 - Just got an application for new insurance coverage
 - Employee has left the company
- Or complex and dynamic
 - Five claims from the same customer for storm damage during period with only 3 weather events
 - Patient left cath lab to ICU, but no aspirin dispensed within 3 hours

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



Business Processes

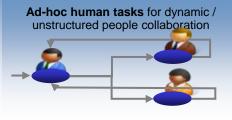
- A "static" view what needs to be done in response to a triggering event
 - Static in the sense that it is predictable, and diagrammable
 - But of course it evolves from day to day, month to month
- "what" can be
 - Human actions / interactions
 - Data actions (services)
 - Physical actions (print a Explanation of Benefits and mail it)

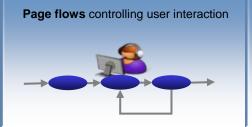


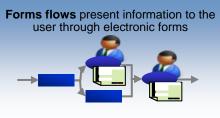
Business Process

Human-centric – Business Processes with a High Degree of Human Interaction

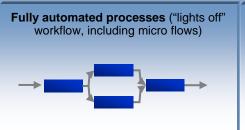




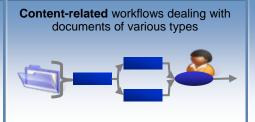


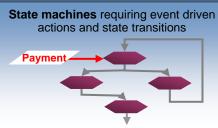


Integration centric – Business Processes with a High Degree of Automation

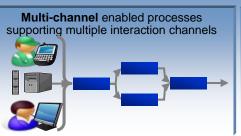




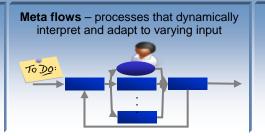




Business Processes that are Independent of the Degree of Automation







...plus combinations from multiple categories

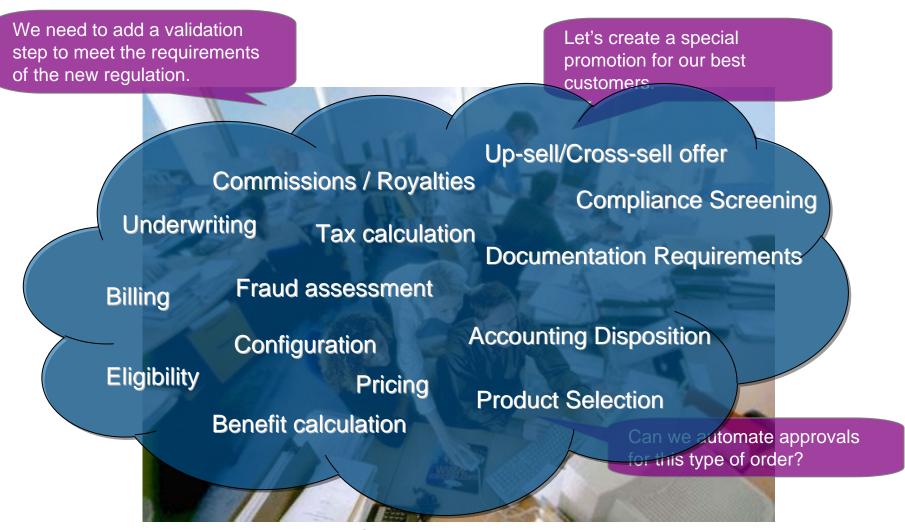


Decisions

- Represent your core competency as a business
 - Underwriting, pricing, commissions, fraud alerts, marketing targeting,
- Bring business processes to life, by creating different outcomes from the same process for variant situations



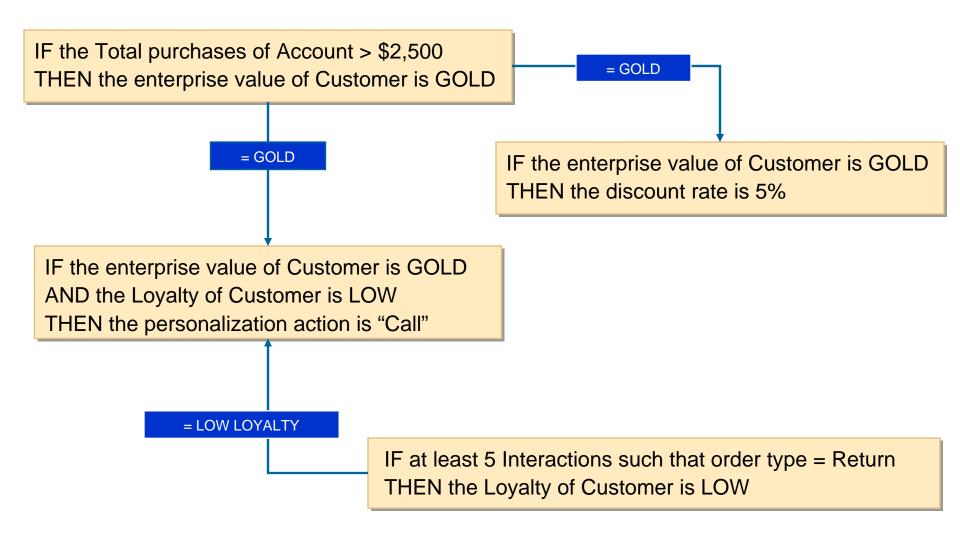
Business decisions are everywhere...



And Changing Frequently



What is a business decision?



Putting it all in Context: Dynamic Application Infrastructure

- BEP, BPM, BRMS (events, process, rules):
 - Help realize business agility in that they
 - All place application definition in a business context
 - Have business expert interfaces for dynamically updating the "application"
 - Sit on solid information and transaction infrastructure
 - Collectively define a "business objective" on top of automation infrastructure approach



Extend action with better decisions

Leveraging BEP, BAM and BRMS

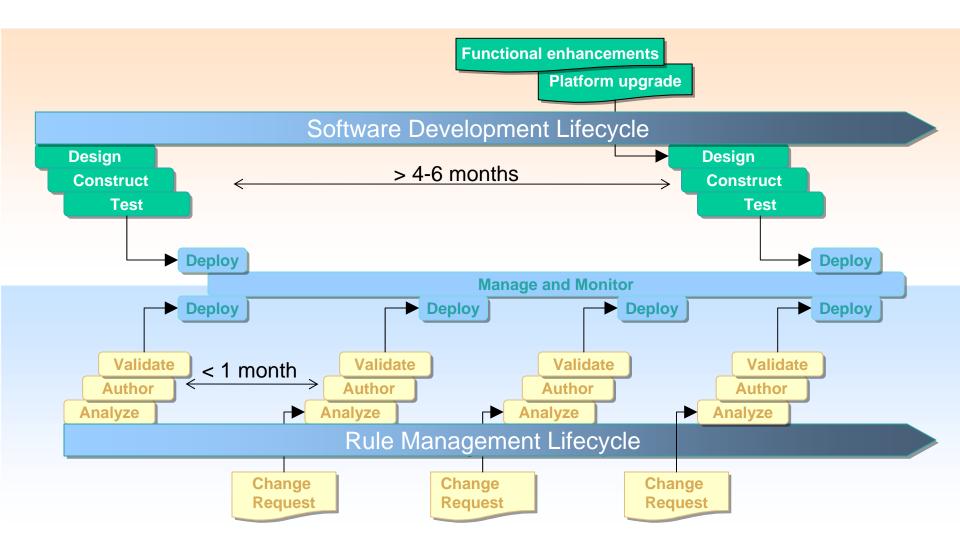
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Know What's Happening, When to Act and What to Do

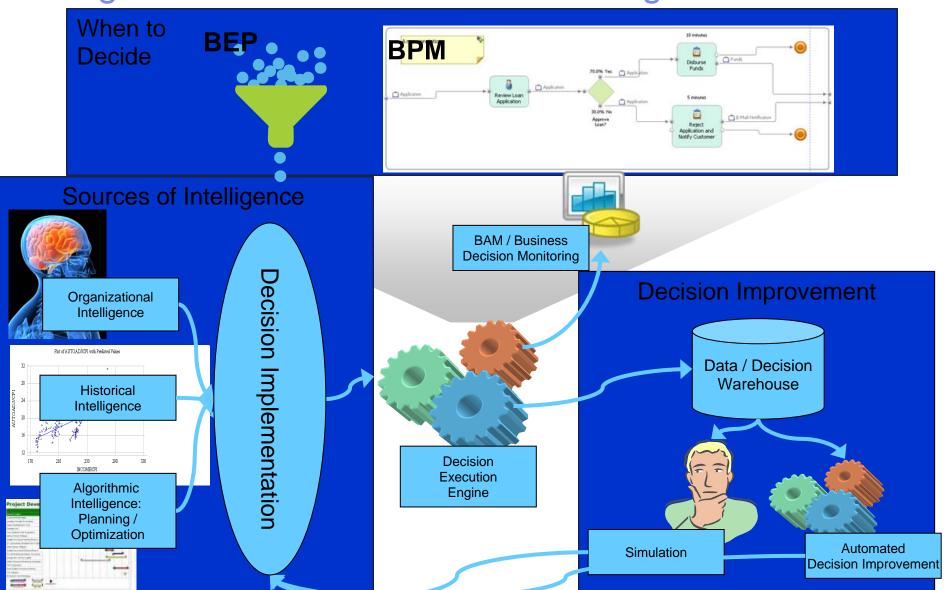


Rule & Software Development Lifecycles





Putting it all in Context: Decision Management



What does this have to do with z?

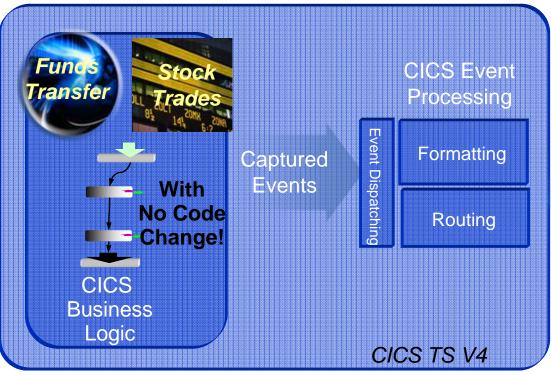
- IBM provides a provides solid z support for these approaches.
 - WebSphere Business Events for z/OS
 - WESB / WebSphere Process Server / WID on z
 - JRules for z/OS and Rules for COBOL
- With ready to use interface to and from CICS and IMS



Capture mainframe events for smarter business outcomes



CICS Event Sources



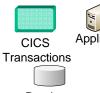
Detect fraud and take action



Business Monitor



WebSphere **Business Events**





Databases

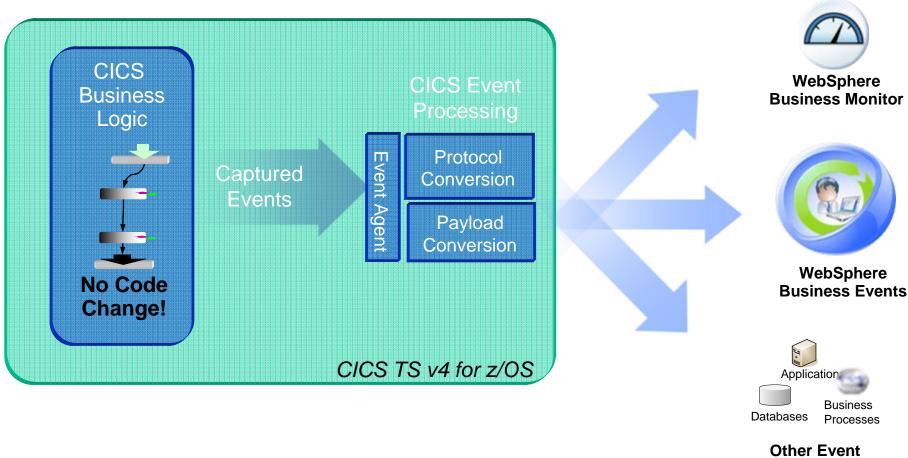
Business Processes

Other Event **Consumers**



WBE integration with CICS Transaction Server

What's under the hood



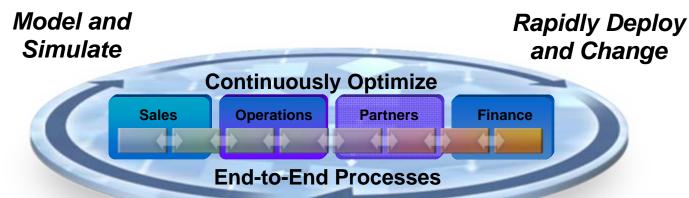
Business Events

Consumers



Process Automation Improves operating efficiency and reduce costs







Streamline business activities

Lower Costs

IBM WebSphere Process Server for z/OS Monitor, Predict and Act



Complement and extend existing applications

Reduce cycle time

IBM WebSphere Business Monitor



Leverages reusable process components

Easier to Manage

IBM WebSphere Business Modeler

Automating workflow increases productivity and optimizes people



- Automatically route tasks to the right person
- Empower users with comprehensive task management tools
- Streamline workflow and automate escalations & exception handling



Can easily identify and route claims to processors with the right expertise

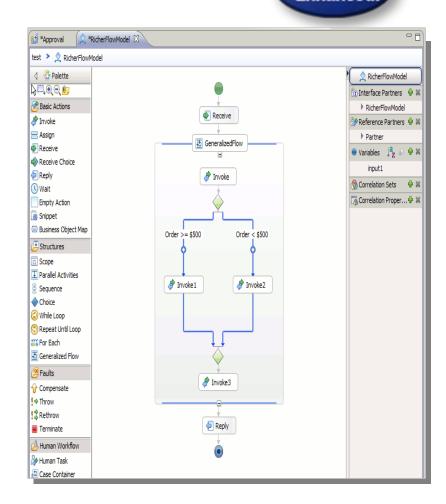


Increase Productivity Through Accelerated Solution Development

WebSphere Integration Developer V7.0

- Improve tooling experience for accelerated solution development
- Accelerate iterative development between business analysts and IT developers
- Supports the latest technologies and standards

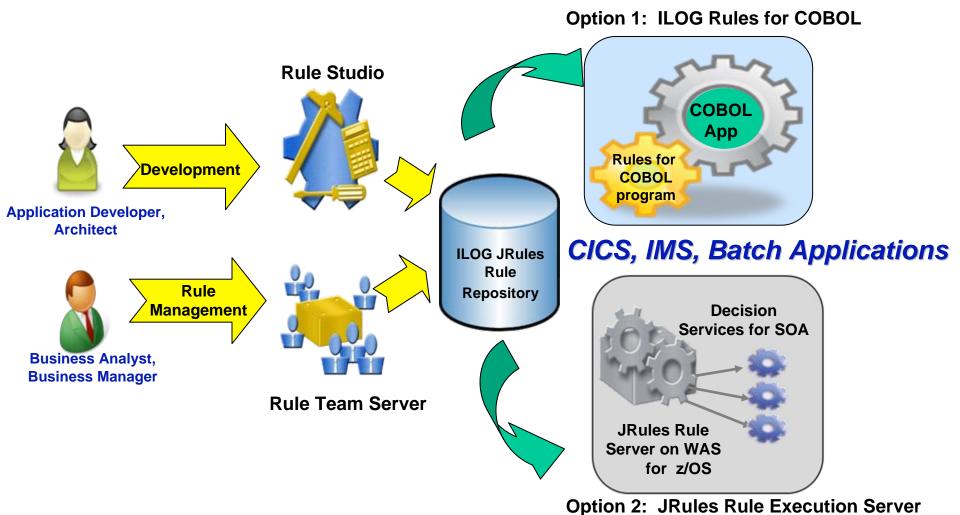
Provides an easy-to-use design time tool for creating and assembling SOA business applications





ILOG Business Rule Management Solutions on System z





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on z/OS or Linux on System z



What is a business rule?

Quasi-natural language

Operator

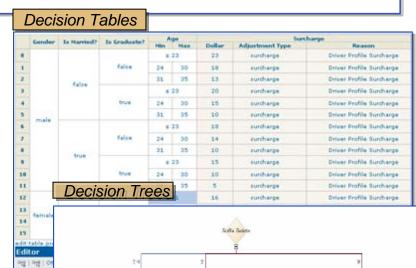
```
if the yearly repayment of 'the loan' is more than
        the yearly income of 'the borrower' * 0.3
then
    add "Too big Debt-To-Income ratio" to the
        messages of 'the loan';
reject 'the loan';
```

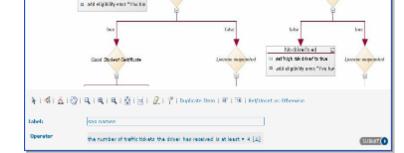
Business Rule

A statement of business logic that:

- ✓ Not cryptic code!
- √ Can be authored by business users
- ✓ Is self-documented, executable,
- reusable

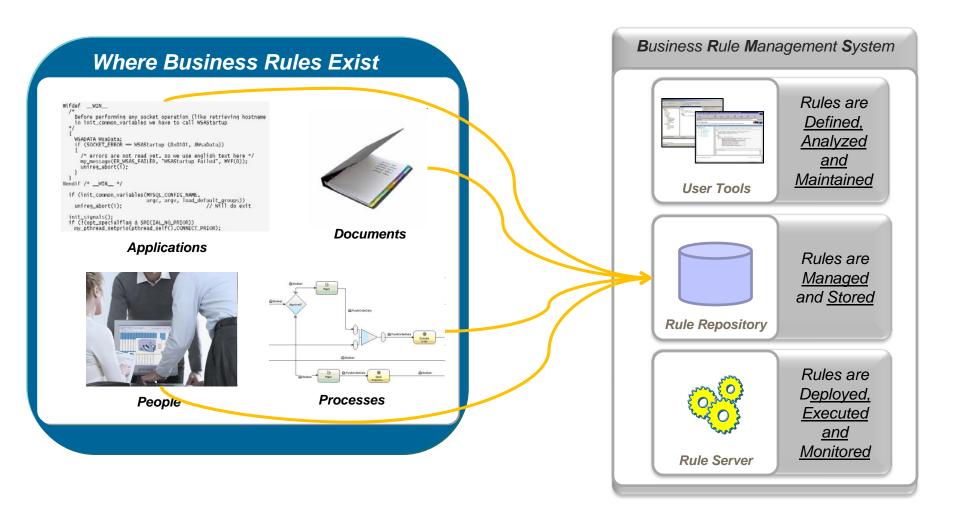








The Smarter Approach: Facilitating Change with BRMS



Events not to miss

IBM Software

Impact2010

The Premier Conference for Business and IT Leaders

Discover. Interact. Optimize.

MAY 2-7 Las Vegas, NV

Register now at: www.ibm.com/software/websphere/events/impact/

The premier software and product delivery event.

June 6-10 Orlando, Florida

Innovate2010

The Rational Software Conference

Let's build a smarter planet.







Let's Build a Smarter Planet on System z

