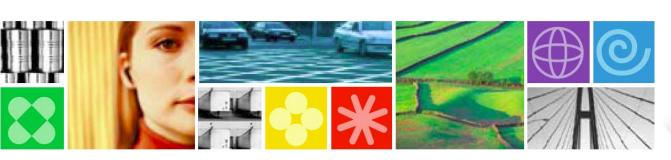


Managing the decision logic that drives System z business solutions







IBM Vision at a Glance...

Smarter Planet

- instrumented
- interconnected
- intelligent

- people
- companies, institutions, industries
- man-made systems
- nature's systems



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

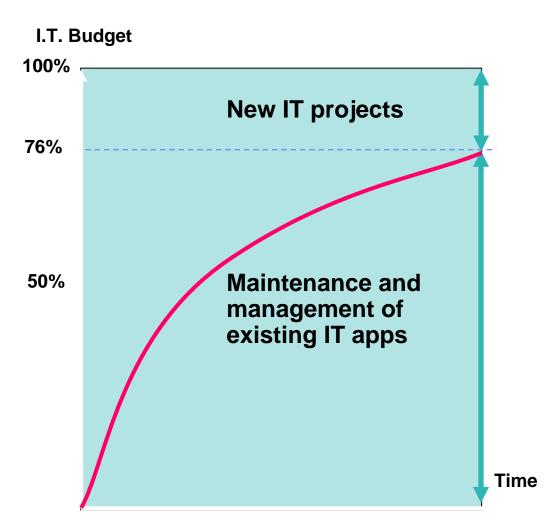
To Survive... To Succeed!



Where are you spending your IT Budgets?

"76% of I.T budgets are spent on MAINTENANCE, leaving only 24% for NEW INVESTMENTS."

--- Forrester Research





We face the challenge of accelerating market shifts

- Rising consumer expectations compel improvements in speed and personalization
- Rapid swings in economic and commodity markets highlight lack of adaptability
- Lower barriers to entry in a digital, flat world, enable fast and easy access by new competitors

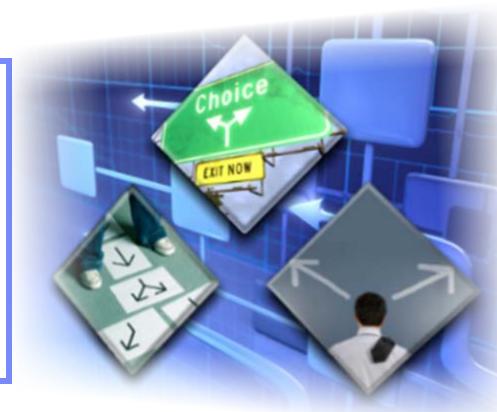
How do businesses evolve to adapt and respond dynamically?





Flexible process automation increases agility and enables rapid change

- Improve agility and time to market
- Manage rule based decisions
- Incremental application modernization



Business rules to drive flexible process automation



Agenda

- What are Business Rules and a Business Rule Management System (BRMS)?
- Where a BRMS fits within your z Architecture and what are your options?
- What are the ILOG BRMS System z Solutions?



Business Decisions are Everywhere...





Business Decisions are Everywhere...



And Changing Frequently





Business Decisions are Everywhere...

We need to add a Let's create a validation step to meet the requirements of the Up-sell/Cross-sell offer new regula Commissions / Royalties Underwriting Tax calculation Compliance Screening Fraud **Documentation Requirements** Billing assessment **Accounting Disposition** Configuration Eligibility Pricing Product Selection Benefit calculation we automate approvals for this type of order?

And Changing Frequently



Business Policies and Business Rules

Business

Policies



Business Rules

Formal statements
of business policies
that define or constrain
some aspect of the business

Example:

Only prime loans are eligible for purchase



If loan amount is less than or equal to prime loan limit Then loan type is prime

If loan type is not prime
Then reject loan



Pricing / Quoting
Underwriting
Commissioning
Claim Processing
Order Management
Risk
Fraud Detection
Accounting...

Point of Sale

Servicing



Traditional Approach for Managing Decision Change

The traditional (ad hoc) approach of dealing with rule changes leads to...

Where Business Rules Typically Exist



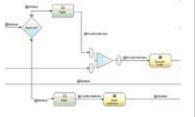
Applications



People



Documents



Processes

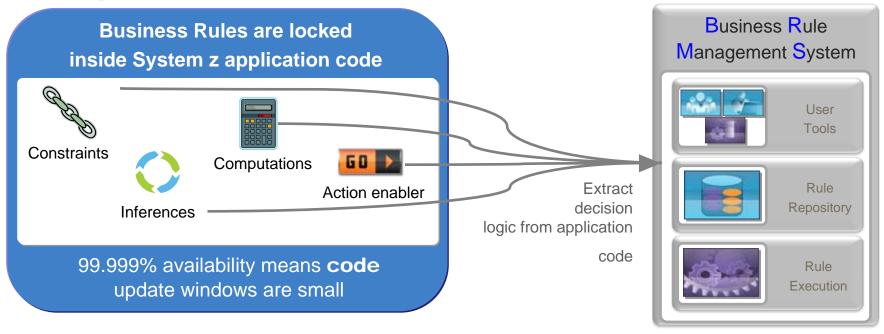
- Reduced organizational agility
- Reduced employee productivity
- Increased load on IT

Issues

- Rules are hidden in code or isolated within the organization
- Changes are hard to track and maintain over time
- Rules used by systems have to be programmed and require IT resources
- Duplication and multiple versions of the same rules
- Lack of auditability, traceability
- Decision changes cannot be easily tested or simulated



More Agile Approach with Business Rule Management System (BRMS)

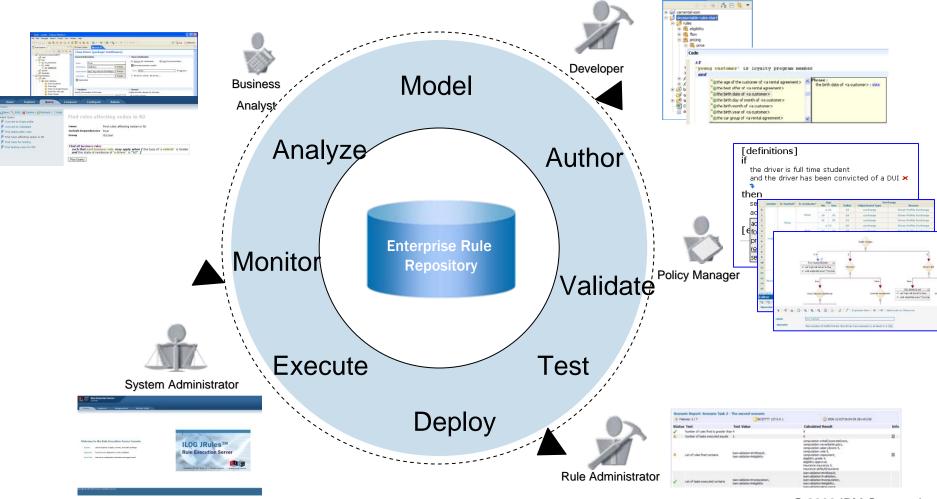


- Adapt faster to ongoing change requirements
 - Respond to customer and industry demands by deploying rule changes independently from lengthy application maintenance cycles
- Reduce load on IT development
 - Express decision logic in business language terms to enable your business experts to participate in rule changes
 - Validate rules execution without the need to retest the whole CICS application



Business Rules Management System (BRMS)

Provides complete functionality and tooling to fully maintain and manage an organization's business rules through the complete business rule life cycle by multiple roles.





BRMS Value across Roles



Benefits for my role:

- Lower TCO
- Increase automation
- Better service level to users



Business Leader

Benefits for my role:

- competitive advantage
- reduced risk
- Increase automation



Benefits for my role:

- Easier to support architecture
- Reduced integration costs
- Enterprise sharing of rules



Process Owner

Benefits for my role:

- Better visibility
- Enterprise sharing of rules



Benefits for my role:

- Higher development productivity
- Offload overhead to business
- •Greater app control but giving greater user flexibility



Benefits for my role:

- Implement rules outside of normal release cycle
- Non-technical rules
- More responsive system



WebSphere ILOG JRules BRMS



IT Development



Rule Studio



Line Of Business



Rule Solutions for Office



Rule Team Server



Decision Validation Services



Custom Web Applications

Maintain

Design

Share





Rule Repository



SOA

Transparent Decision Services



Rule Execution Server



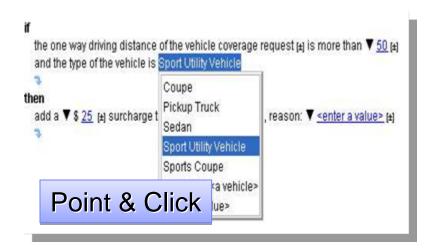
Rules for COBOL

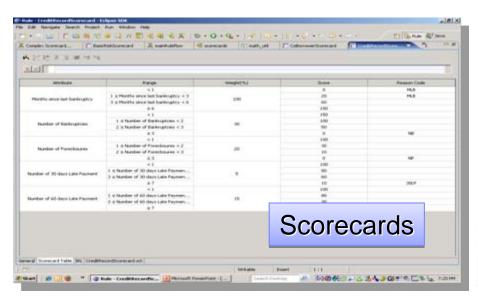
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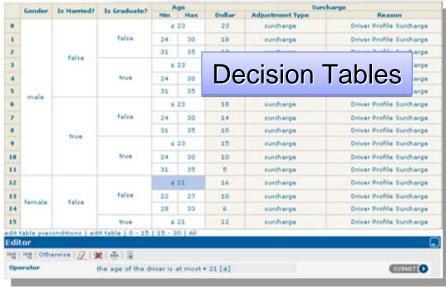


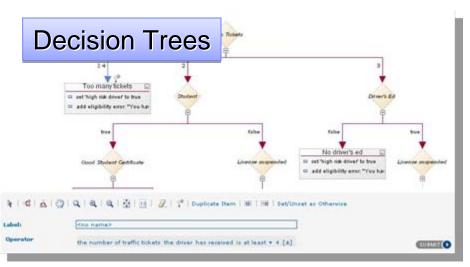


Intuitive Rule Authoring Environments







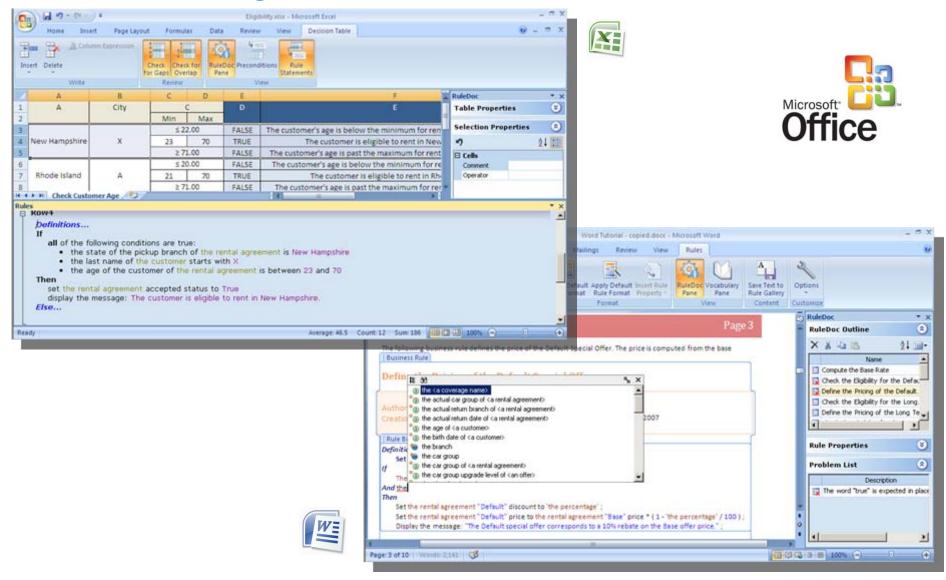


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Rules Authoring Delivered to Business





ILOG BRMS Case Study

Challenge

- The company was missing revenue by not being able to present the right offer at the right time when a customer was on-line.
- Decision logics were scattered and inconsistent across channels.
- Poor customer experience: branch staff would sometimes try to cross-sell to clients who did not qualify for the additional credit, resulting in negative client experience

Solution

- Create an ILOG BRMS based cross-sell/up-sell solution
- Decision support throughout generation of personalized & qualified offers
- Cross-channel (branches, call centers, etc.), crossproduct & customer centric
- Agile solution from both business & IT standpoints!

Business Benefits

- Improved client relationship acquisition, retention & wallet-share
- Accelerated ROI
 - Increased revenues \$14M in approved bookings in 2.5 months
 - Significantly increased cross-sell offers: from 13% to 40%
 - Significantly increased acceptance from 3% to 20%-30%
- Instant updates of rules fully managed by business users.

One of the Largest Financial Service Providers in the World Dramatically Increases Revenue through Cross-sell/Upsell

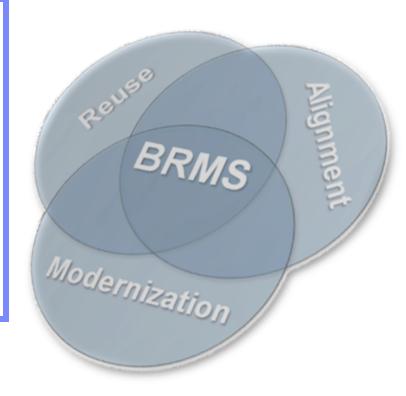


Manage rule based decisions

Manage rule based decisions

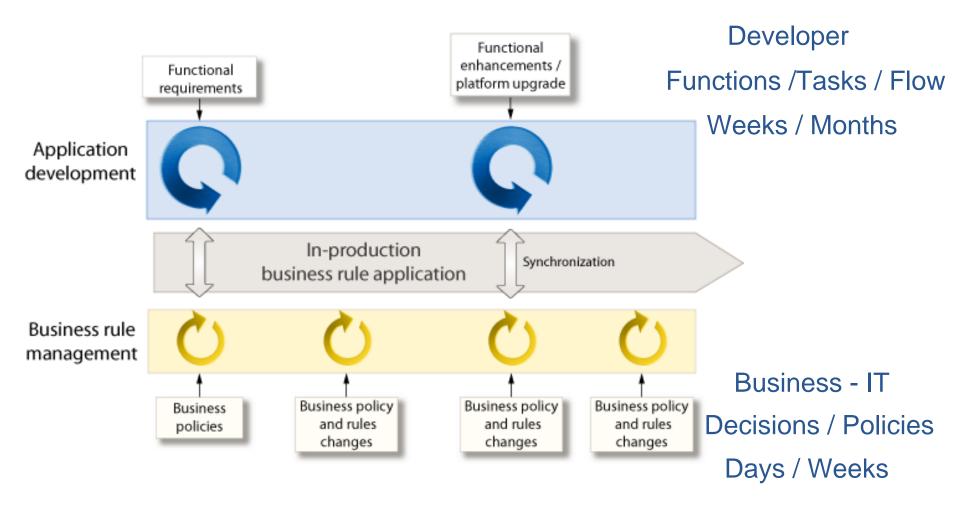
ILOG BRMS is *the IBM technology* for creating, maintaining and implementing decision services...

- Allows for easy implementation and reuse of business rules
- Provides a convenient communication channel between IT and business teams
- Improved regulatory compliance
- Consistency in applying business decisions across applications





Redefined Application Change Cycle

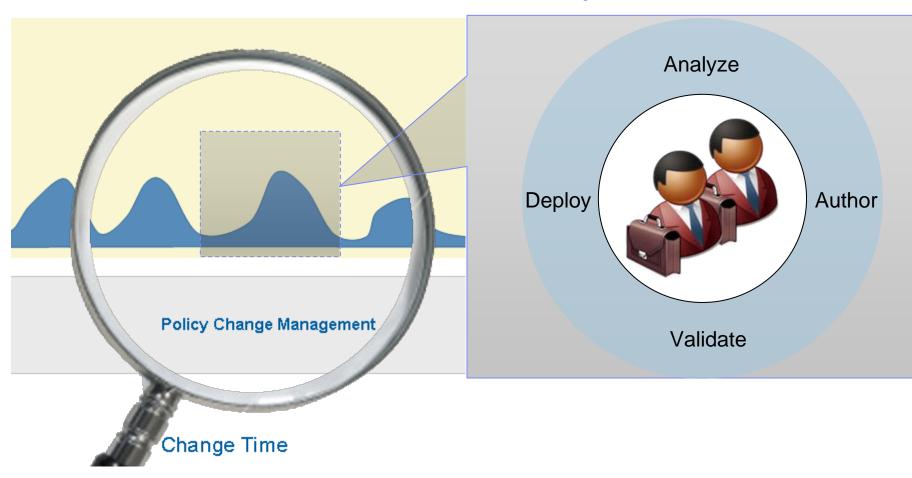


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Making the change process Easy, Safe and Predictable

Business Rule Maintenance Lifecycle



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Value of BRMS on System z

ILOG's BRMS manages the business logic in a form that is EASILY readable, manageable and changeable



Use BRMS to define and manage

Automated Decisions



Reuse

Use BRMS to create Decision Services as part of a System z SOA Strategy Manage rule based decisions

ILOG BRMS System z Options

OPTION 1:

Rules using Rules for COBOL

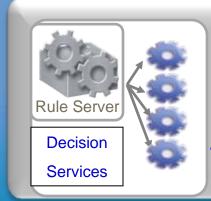


OPTION 2:

JRules using
Rule Execution
——Server



Rules are generated as COBOL source for execution in IMS, CICS, batch



Rules are deployed, executed and monitored in J2EE services

System z







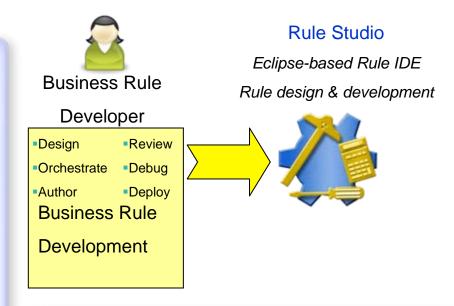
Improve Agility

Challenge

Marketing VP needs to react to change to market in a timely manner but mew offers take a long time to introduce because of an IT backlog and systems very difficult to work with.

Solution

- Author rules to extend CICS COBOL applications to produce business behaviours when new orders are placed
- Business managers can quickly identify and understand what business decisions to change
- Simplifies modernization by introducing change in a single place
- minimize risk and disruption.



Business Value

Timely modification of offers to increasing competitive edge Reduced risk, cost and time to implement change



Manage rule based decisions

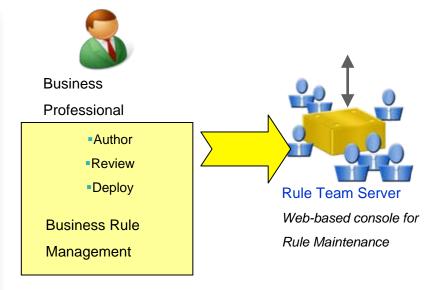
Adapt to Accelerate Time to Market

Challenge

LOB needs to adjust credit rules to reduce business risk of a lending application.

Solution

- LOB users make rules adjustments in Rule Team Sever and deploy changes to CICS applications
- Avoid and application change cycle.
- Puts LOB in control of the business changes



Business Value

Immediately reduces risk with a auditable change management process





Manage rule based decisions

Innovate by incremental modernizing applications

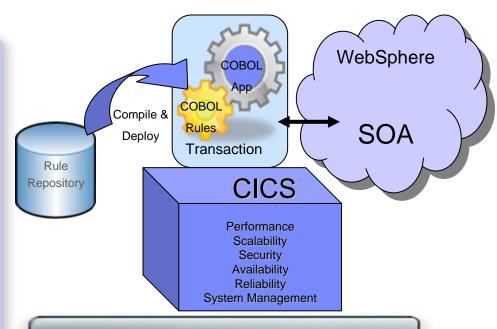
Challenge

IT Executives

Reduce the load on staff from LOB requests to change systems behavior. Needs to reduce cost of application maintenance and meet SLAs.

Solution

Incrementally modernize CICS applications with a phased approach to externalizing business logic with focus on bridging to SOA.



Business Value

- Compliment SOA roll out across solutions and ssimplifies modernization by introducing change in a single place
- Reduced risk, cost and time to implement change in proven applications



Incremental application modernization

Incremental application modernization

- Faster turnaround of business rule changes with rule-based application management
- Seamless legacy-to-rules migration
- Closes Knowledge Gap
- Controlled Migration Path to Modernized z Architecture





Manage rule based decisions

ILOG BRMS Is a Path to Application Modernization



Sample Business Rule Modernization Plan

- Phase 1 Start with identifying the corporate rules.
- Phase 2 Start with Country 1 App
 Author rules in JRules.
- Phase 3 to x Continue with each country application but by business decision review each country rules



Options for Integrating System z Applications with JRules and Rules for COBOL

JRules via Web service	Use CICS support for Web services to make an external call out to a Rule Execution Server	JRules RES on z/OS, RTS on z/OS
JRules via MQ	Use CICS and MQ to make a JMS call out to a Rule Execution Server	JRules RES on z/OS, RTS on z/OS
JRules Java SE engine	Deploy a core JRules rule engine in a CICS JVM and access the rule engine directly with the JRules API	JRules, Engine
JRules Java SE Rule Execution Server	Deploy J2SE rule execution server in a CICS JVM and access via RES API	JRules RES on zOS and RTS on z/OS
Rules for COBOL	Deploy rules as a COBOL sub-program and link-edit this program into your application	Rules for COBOL





Benefits of WebSphere ILOG BRMS

Reduced lead times for changes

Fast, reliable updates of customer loyalty offers, deployed directly by business users (retail)

More personalized client interactions

Automated, interactive screening for over 40 different government programs (local government)



Internal/external compliance

Support of regulations that vary by customer location and product line (insurance)

Business – IT alignment

Business user control of rules reduced new policy implementation by 50% (pension administration)



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