

Gestión Flexible de Reglas de Negocio en System Z









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!

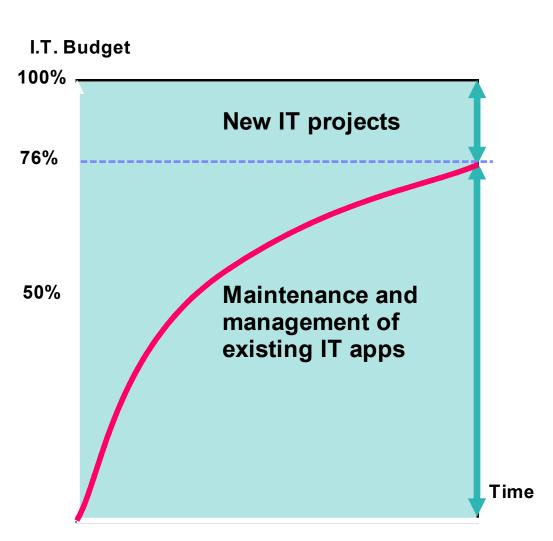




Where are you spending your IT Budgets?

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

--- Forrester Research

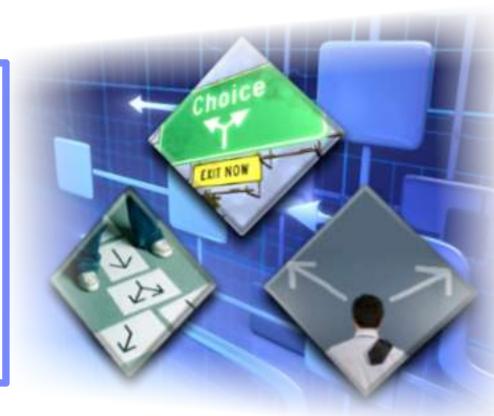






Flexible decision automation increases agility and enables rapid change

- 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?
- BRMS in Action
- Conclusion & Benefits





Business Policies and Business Rules

¿Cual es el riesgo de un cliente?

Regla de segmentación

V

V

V

V

V

V

V

'the journal num

the journal num

'the journal num

'the journal num'

'the journal num

the journal num

'the journal num

si el solicitante ya es cliente

y el balance de la cuenta es mayor que 3000€

y el numero de descubiertos en los últimos 180 días es 0

entonces

el segmento de la solicitud es Riesgo Bajo

¿Cual es la comisión sobre una operación?

Política de precios

si la operación es de tipo transferencia

y el canal utilizado es internet

y el acuerdo del cliente incluye banca online

entonces

aplicar un descuento del 40% sobre precio de catalogo

¿Cual es el asiento contable para esta operación?

Tabla de decisión contable create a journal entry Op type Accrued Out of ccy journal number pos core balance type account amount BUY 'the journal num Inventory journal o... INVENTORY the secondary atv SELL 'the journal num' Inventory journal o.. INVENTORY the secondary qty BUY 2 С 'the journal num Counterparty journ. COUNTERPARTY 'the settle aty SELL the journal num 2 D Counterparty journ. COUNTERPARTY 3 D 'the accrued interes. BUY COUPON BOUGHT 'the journal num Coupon bought/sol SELL 'the journal num' 3 С Coupon bought/sol. COUPON BOUGHT 'the accrued interes. V BUY 'the journal num 4

¿Que cámara de compensación seleccionar para enrutar un pago?

Tabla de enrutamiento

CURRENCY	DAVMENT TYPE	AMOUNT		Applicable MOP
CORRENCT	PATINEINI TIPE	<min></min>	<max></max>	Applicable Mor
F	PAYMENT TYPE	500,000	EBA, CHAPSE E	
EUD	Dalik (U Dalik	<min> <max> 100,000 500,000 Otherwise</max></min>	EBA, TARGET, SWIFT	
EUR	Customer Payment			CHAPSE
		> 50	0,000	TARGET
GBP				CHAPSG
Otherwise				SWIFT

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SELL

BUY

SELL

BUY

SELL

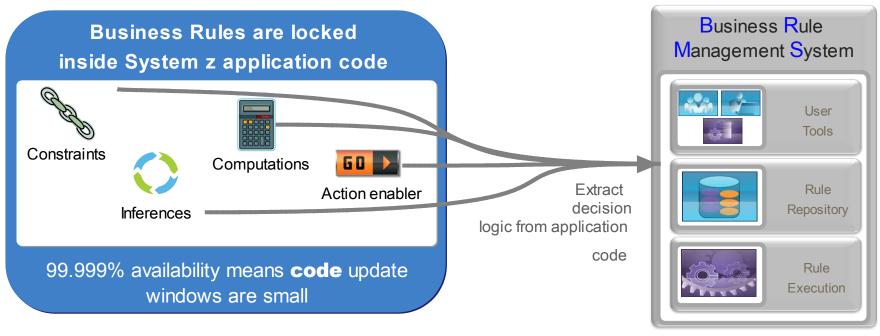
BUY

SELL





More Agile Approach with Business Rule Management System (BRMS)

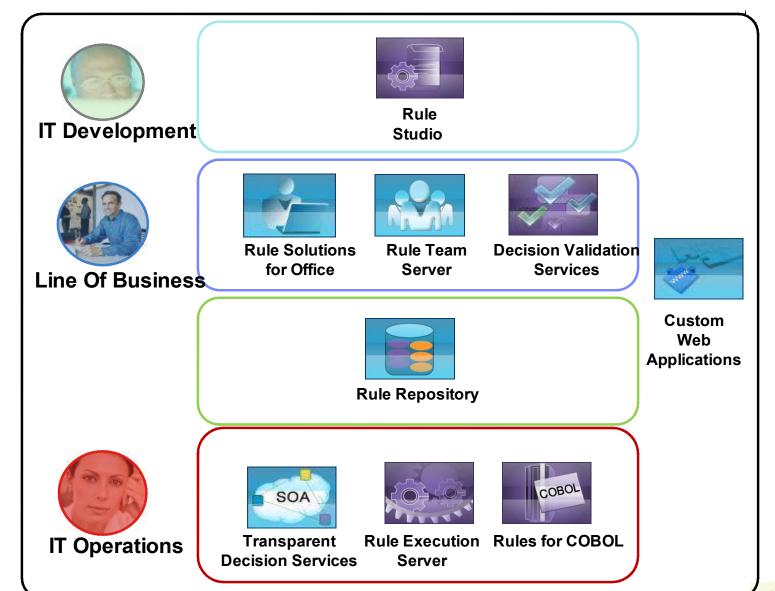


- Adapt faster to ongoing change requirements
 - Respond to customer and industry demands by deploying rule changes independently from lengthy application maintenance cycles
- Reduce load on IT development
 - Express decision logic in business language terms to enable your business experts to participate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





WebSphere ILOG JRules BRMS



Design

Maintain

Share

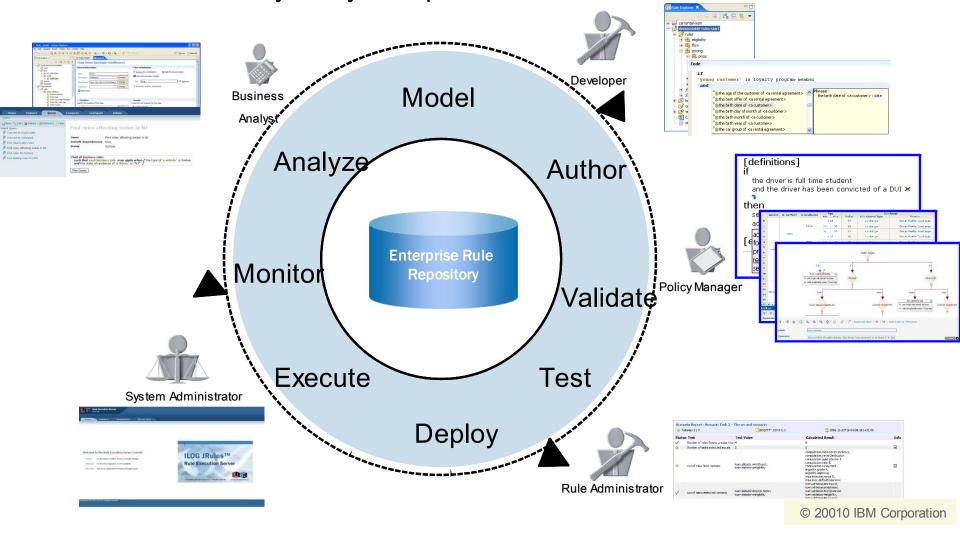
Deploy





Business Rules Management System (BRMS)

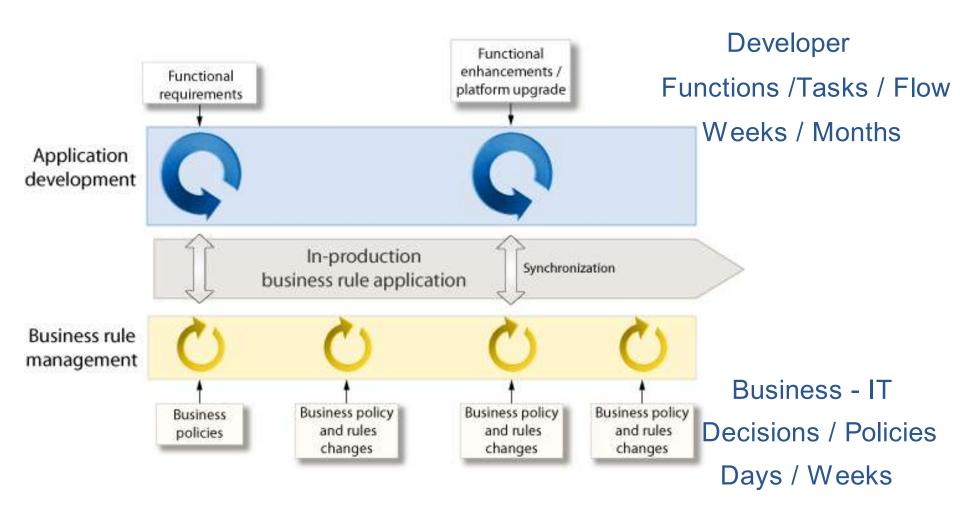
Provides complete functionality and tooling to fully maintain and manage an organization's business rules through the complete business rule life cycle by multiple roles.







Redefined Application Change Cycle

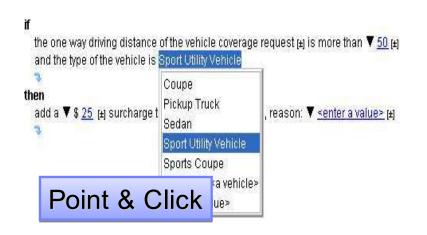


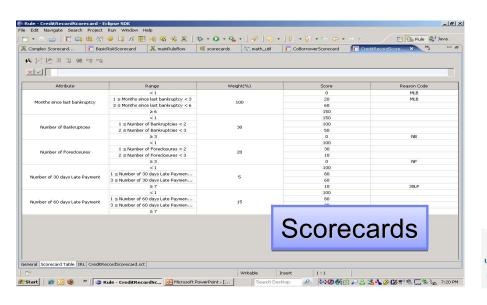




SUBMIT ()

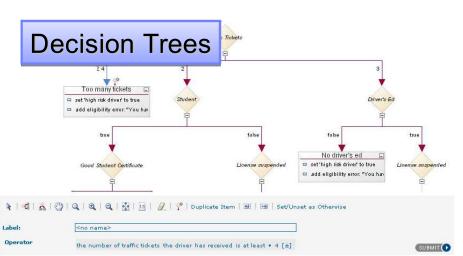
Intuitive Rule Authoring Environments







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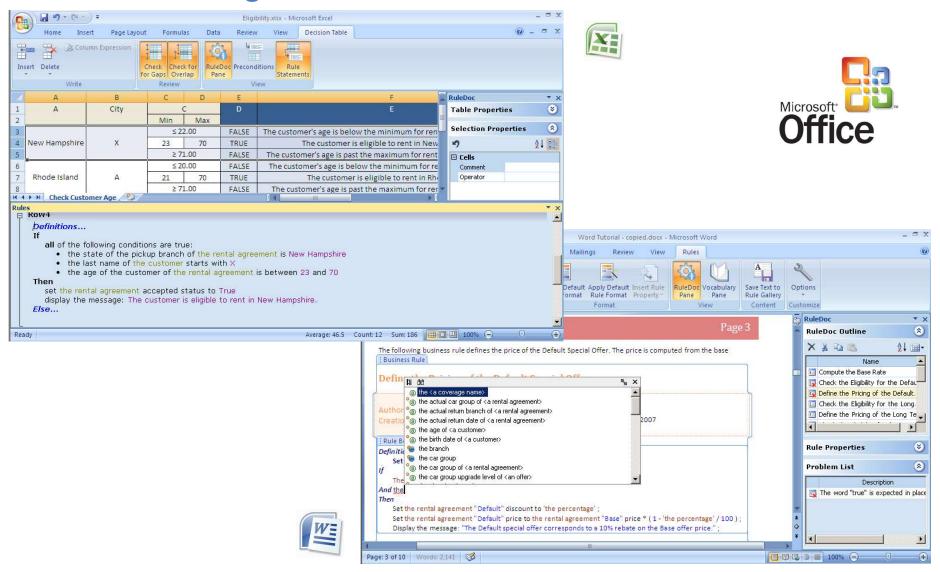


the age of the driver is at most ▼ 21 [±]





Rules Authoring Delivered to Business







Agenda

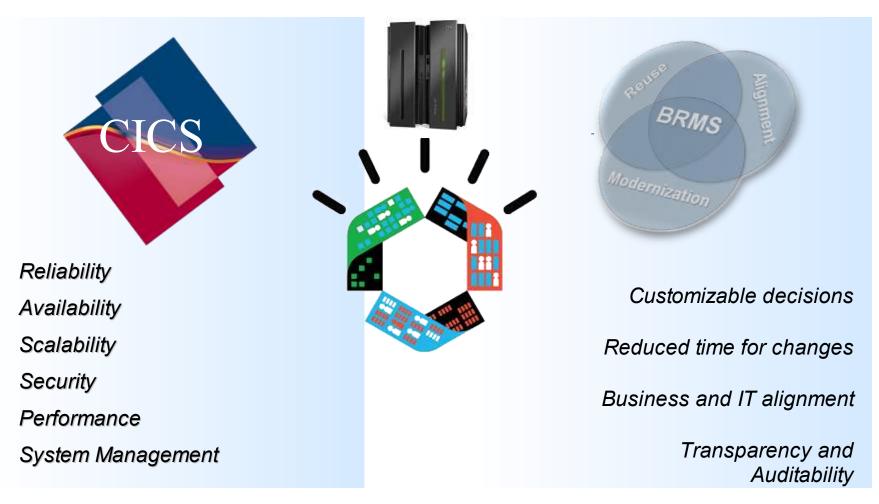
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Transforming the Enterprise through Smarter Work

Enable assets to become more agile, while leveraging the strengths of System z







Manage rule based decisions

ILOG BRMS System z Options



Rules using Rules for COBOL



Rule Repository

Rule Studio

Rules are *Defined*, *Analyzed* and *Maintained*

Rule Team Server

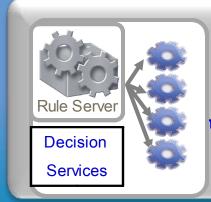
Rules are Stored and Shared

OPTION 2:

JRules using
Rule Execution
Server



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



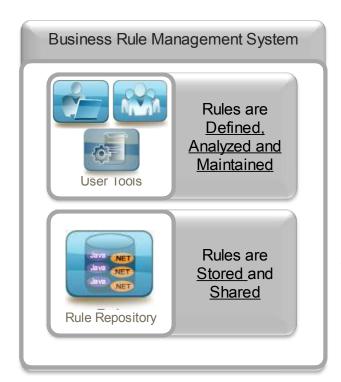
Rules are deployed, executed and nonitored in J2EE services

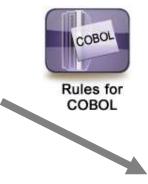
System z





Rules for COBOL













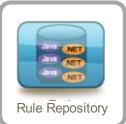






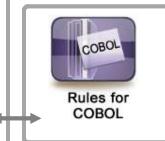
Overview of Rules for COBOL





- Create BOM
- Create Business vocabulary
- Write Rules
- Create ruleflows
- Generate the COBOL source

BRMS



COBOL Rule generation

COBOL

copybook



- Create Copybook
- Include COBOL generated as a subprogram
- Compile main program
- Call generated subprogram

Mainframe Application





Write, maintain & manage rules





Best of two worlds



Compile code & run system

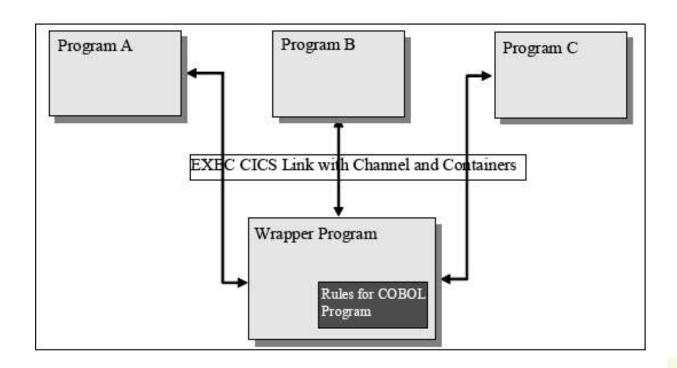






R4C Improving Changes with CICS Channels & Containers

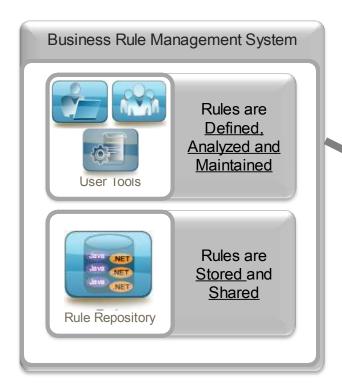
- Compile the generated rules program independently
- No need to re-link the many programs calling the rules
- Rules program can run in a different CICS region
- CICSPlex Workload Manager can be used to achieve the best throughput of the rules

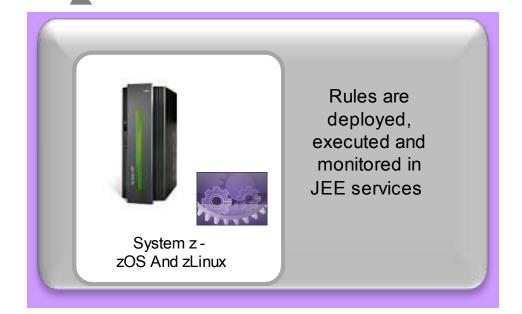






ILOG BRMS for System z



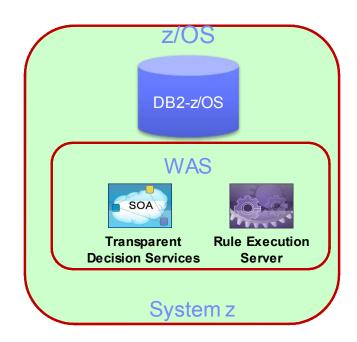




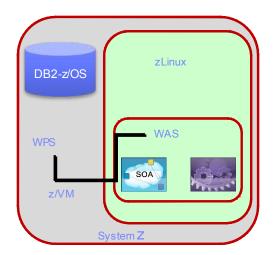


JRules Native on System z or zLinux

- JRules system z/OS with WAS
 - Takes advantage of the WebSphere Optimized Local Adapters (WOLA) for CICS & IMS. No TCP/IP or DB2 access overhead when running in the same LPAR.
 - The Resource and Recovery Services (RRS) runs native on z/ OS and ensures transactional access across different connected z/OS parts.
 - Sophisticated controller/servant concept to implement a reliant & scalable mini-cluster. The RES can exploit the use of more servants dynamically when load increases.



- JRules system zLinux with WAS
 - The WAS on zLinux is identical to a WAS on any other distributed system.
 - This configuration does not allow for WOLA or JDBC Type 2 drivers.
 - There is not controller/servant concept to maximize performance.





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	1	





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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)





IBM Websphere ILOG Resources

- www.ilog.com/brms
 BRMS Resource Center -- explore, learn, try
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