

WebSphere Operational Decision Management

Technical Presentation





Introducing WebSphere Operational Decision Management





Your business decisions.

Made by your business *experts*.

Delivered in *real-time* by technology.



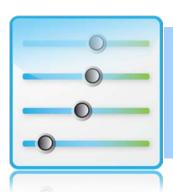
Key Challenges Addressed by Decision Management





How can we rapidly respond to evolving market demands, competitive actions and regulatory requirements?

→ Adapt to rapid change



How can we simplify the visibility and governance of business decisions?

→ Align across business & IT



How can we ensure that business systems deliver the right interactions at the right time?

→ Act with precision and reliability

Benefits of WebSphere Operational Decision Management



Automating repeatable decisions for use across processes & applications

Business User Empowerment

Enable business experts to author, improve and maintain decision logic in partnership with IT



Decision Externalization

Separate decisions from processes and applications to simplify visibility and reuse



Real-time Decision Automation

Execute real-time decisions precisely and reliably based on the context of specific interactions



Combination of contextual and/or time-based rule artifacts

Contextual Decisions

Application, Process, Service invokes a specific Decision, passing information to be processed by the rules,

The contextual rules process the information are form a result

Once complete the Decision passes a result back to the Application, Process or Service to take action on

Validation Decision - Eligibility

Calculation Decision - Pricing

Classification Decision - Gold, Silver, Bronze

Situational Decisions

Specific situations are defined in event rules looking for specific known sequences which should be correlated from a real-time stream of events.

When the known sequence of rules matches a specific sequence of events, then either

- 1. This simple decision takes some immediate Action
- 2. A synchronous decision is invoked to do additional processing, prior to making a decision and taking some action.

Occurrence of Decision

 If customer asks for 3 quotes in 24 hours then

provide 2% discount for immediate acceptance

Missing Events Decision
- If medical equipment event
is not receive every 1 hour
then send alert to medical staff

Business Language for Rules and Events



A common framework for different types of business decisions

Business Rule

ΙF

the age of **driver** is less than 25 **and** the number of accidents of **driver** is at least 3 **THEN**

the driver is considered as a high risk driver

- Basic to cross validations
- Derivations
- Computation
- Scoring
- Rating
- (etc.)

Business Event Rule

IF.

the number of hits on this Web page in a five-minute period exceeds the daily average by more than 50%,

THEN

bring up a second Web server and notify the marketing department.

- Time based reasoning
- Missing events
- Synthetic events
- Dynamic context
- Late-binding
- (etc.)

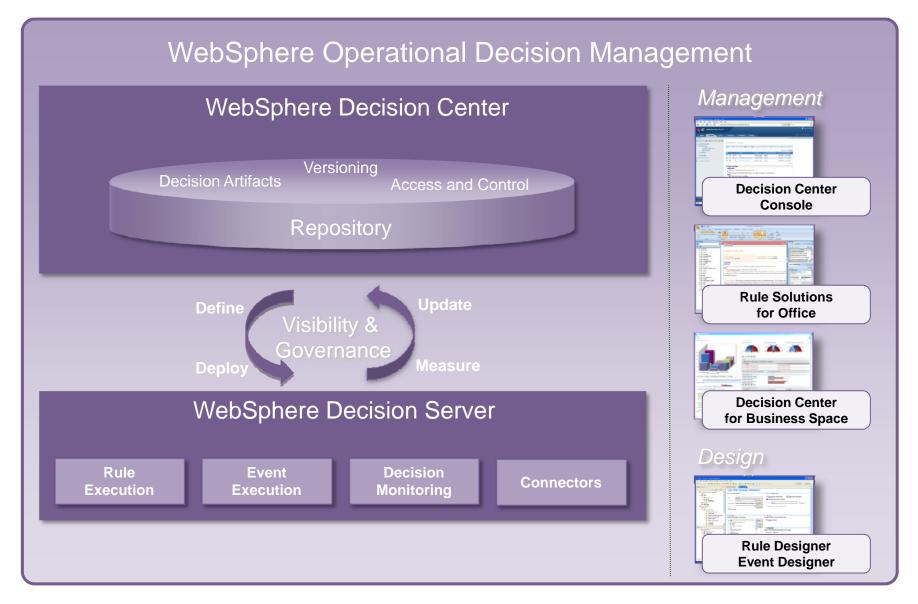
Common Functionality Between Rules

- Customizable vocabulary specific to your organization, industry, application (etc.)
- Supports language localization
- Integrates with external data sources (e.g. list of countries)
- Drop down lists for customized domain data
- Templates facilitate new rule and event creation



WebSphere Operational Decision Management Components

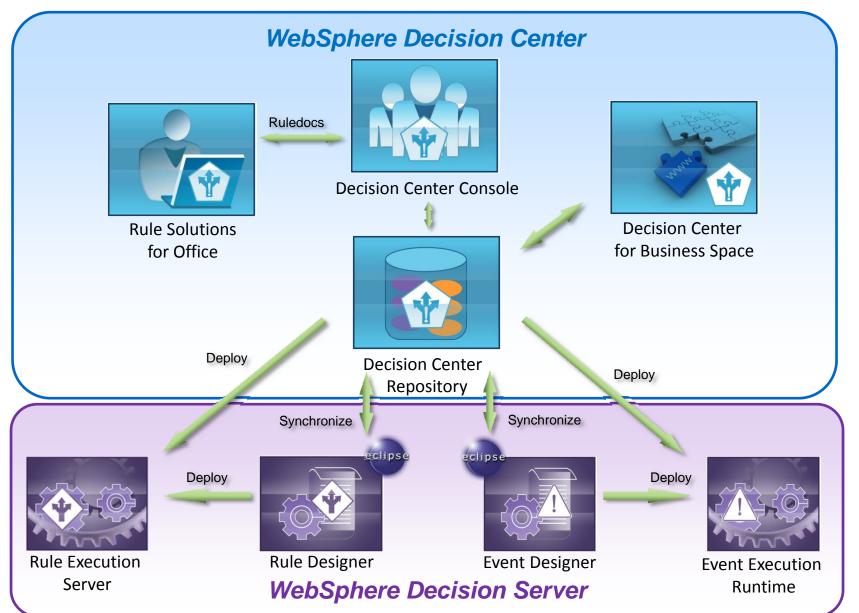




WebSphere Operational Decision Management



Relations between components



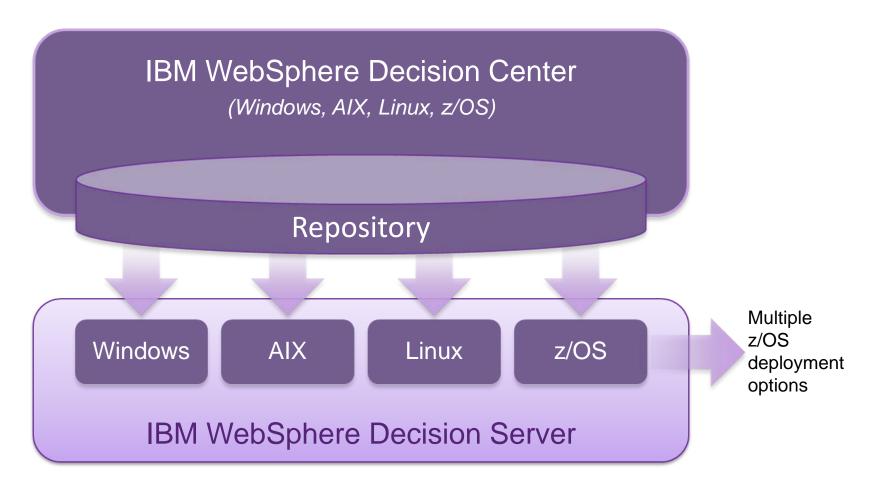


WebSphere Operational Decision Management



Runtime support

Leverage a wide range of platforms to meet the varying needs of enterprise architectures

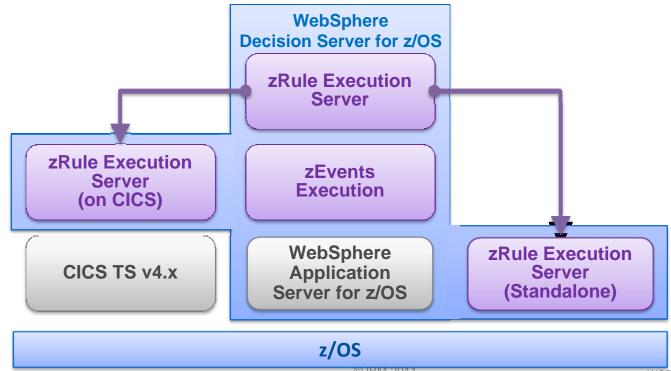




Operational Decision Management on System z Runtime Options



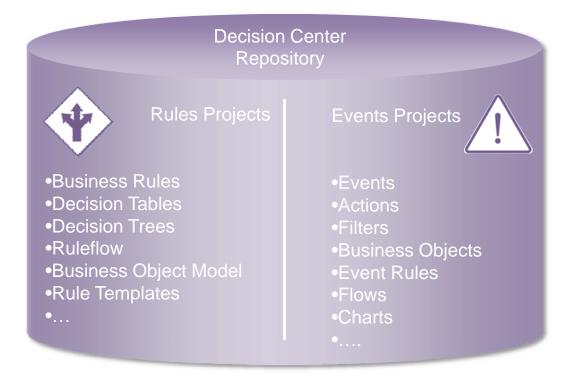
- Decisions can be invoked from existing CICS and batch applications
- Runtime support for COBOL data types
- Flexible runtime deployment to fit any System z environment:
 - Deployed on WebSphere Application Server for z/OS
 - Deployed standalone to z/OS
 - Deployed in CICS TS 4.x JVMServer environment



Decision Center Repository



The collaborative work component



- Decision artifacts are stored in projects
 - Event projects
 - Rule projects
- Event projects & rule projects are independent from each other
- Concepts are identical
 - Access restriction
 - Navigation
 - Sharing



BPM and **WODM**



Operational Decision Management and BPM



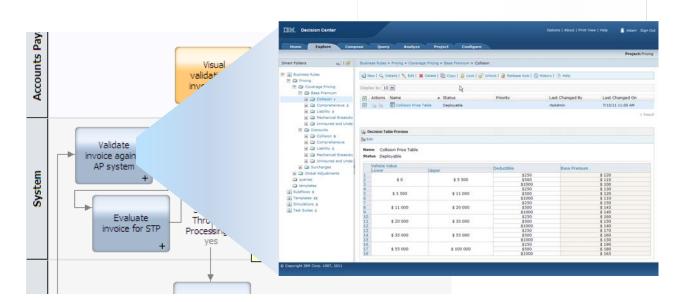
Two-Pronged Approach to Process Improvement

Process Management

- Defines and orchestrates the end-to-end process
- Combines automation with user interaction
- Is fundamentally concerned with operational efficiency of the organization

Operational Decision Management

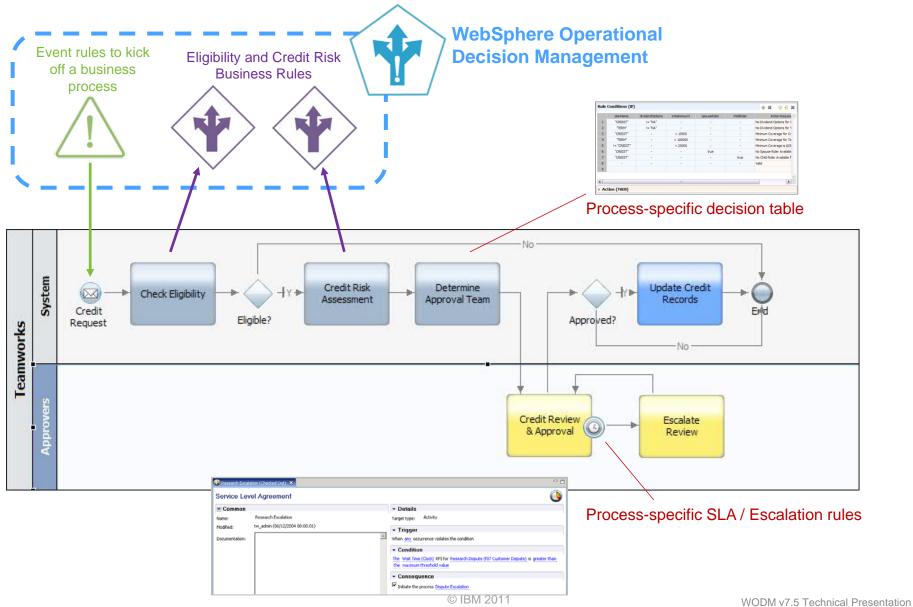
- Defines and executes specific decision points in processes and applications
- Is focused on automating and improving decisions
- Is fundamentally concerned with the operational intelligence of the organization



Business Process Management



Externalizing decisions for the right types of rules





Identifying the right type of rules

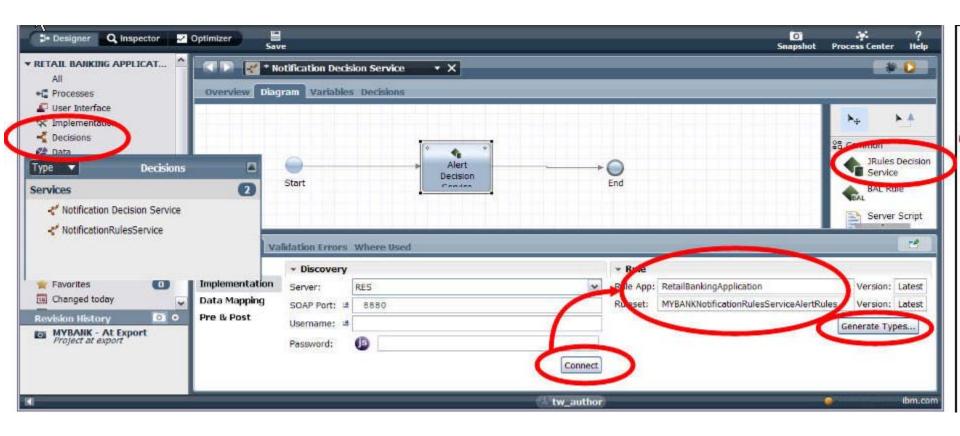


	Rules and Decisions	Rule / Decision Examples	Where are Rules Defined?	Right Tool
	Process Flow / Task Assignment Rules	Assign loan review task to the Underwriter with the lowest number of tasks-in-queue.	Process specific	BPM
	Process Monitoring (SLA) Rules	Trigger notification / process when "Response Time" KPI for Final Approval task exceeds maximum threshold value.	Process specific	BPM
	Contextual Decisions with Business Rules • Validation • Classification, Calculation • Enrichment • Scoring	Validation, Eligibility and Payment calculation decisions for insurance claims Eligibility & Pricing Decisions in Offer based processes	Externalized from process	WODM Action Rules
	Situational Decisions with Event Rules - Patterns to trigger process	Event pattern: Identify Situation for Potential Fraud and Invoke Fraud processing	Event-stream specific	WODM Event Rules

Reuse Business Decisions in Business Processes



Simple discovery and integration of Decision Services deployed on WebSphere Operational Decision Management directly within Process Designer



Integrated Process & Rules Management from IBM



IBM Business Process Manager

Comprehensive platform for rapid development and management of business process applications

- Simplicity & sophistication user experience allows business users to engage more fully in process design and improvement
- Lower implementation cost, effort, and risk than other BPM alternatives
- Built-in Performance Data Warehouse, Optimizer for automatic tracking, analysis, and optimization of process applications
- Designed to scale easily to multi-project, multi-version enterprise BPM programs

WebSphere Operational Decision Management

Enterprise Operational Decision Management that supports management and sharing of strategic rules and business policies across applications

- Powerful decision automation designed to scale, supporting evaluation of very large rule sets
- Simplified rule maintenance can be done simply using web or Microsoft Office, independently of client applications
- Built-in usage tracking and reporting enables better management of evolving rule sets

IBM Business Process Manager + WebSphere Operational Decision Management provide a scalable enterprise platform for smarter, simpler, faster process improvement.