



WebSphere® software

# IBM WebSphere ILOG JRules BRMS

## Business rule management for Java, mainframe and SOA environments

### Highlights

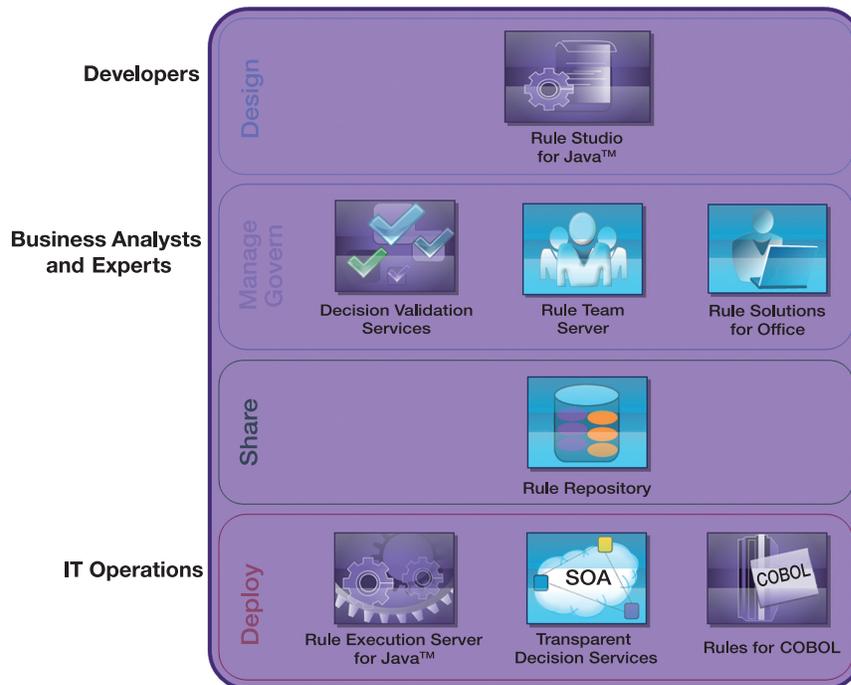
- **Greater business agility**
- **Increased revenue opportunities**
- **More personalized and precise customer interaction**
- **Improved regulatory compliance**
- **Reduced application development and maintenance costs**

### Stay ahead of the competition

To effectively compete in rapidly evolving markets, companies increasingly depend on business rule management system (BRMS) solutions to quickly and reliably implement changes to operational business decisions. Used in mission-critical enterprise systems in virtually every industry, the IBM® WebSphere® ILOG JRules BRMS is a market leader for keeping companies competitive.

### Unmatched ability

No other product approaches JRules' ability to automate and implement complex, variable decisions such as pricing, eligibility verification, product configuration and up-sell/cross-sell recommendations. Its comprehensive capabilities also empower business users to directly manage the decision logic for which they are responsible and which create differentiated value.



The JRules BRMS provides a comprehensive solution for defining, maintaining and deploying rule-based applications

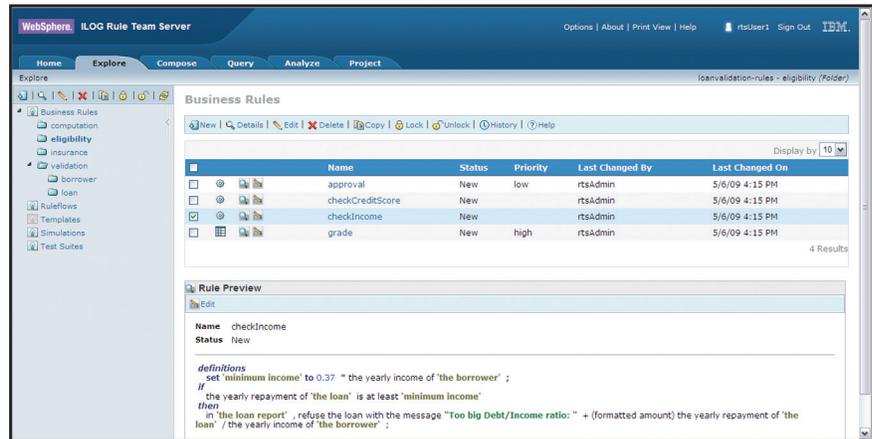
## Most complete BRMS

The JRules BRMS meets the unique needs of lines-of-business, IT developers and IT operations to easily and successfully manage the decision logic that drives business systems. It accelerates time-to-market and lowers total cost of ownership through four key capabilities:

- *Collaborative rule management for business teams*
- *Comprehensive application development and deployment for IT teams*
- *Superior decision governance for business and IT users*
- *Robust, scalable and managed rule execution*

The JRules BRMS product line provides a set tools and environments that adapt to the way organizations work, and it provides comprehensive support for the various platforms used in enterprise IT architectures.

## Total support for business teams



Rule Team Server is a collaborative, web-based environment for business user rule management

## Easy, safe and predictable rule management

IBM WebSphere ILOG Rule Team Server enhances productivity and enables easy, safe and predictable rule management for business users. Distributed business teams can collaborate through a powerful Web-based environment to create, manage, validate and deploy business rules. Its configurable, easy-to-use interface and powerful functionality give business users control in defining and maintaining operational decision logic, along with visibility into how rules affect the systems that interact with the BRMS.

Rule Team Server empowers business teams to:

- *Author and edit rules using their own business vocabulary*
- *Manage collaboration with role-based permissions, access controls and customizable rule metadata properties*
- *Simplify rule projects through IBM ILOG's Smart Views, filters and reports*
- *Facilitate rule maintenance with templates, point-and-click editors, error checking and versioning*
- *Ensure rule quality with customizable queries, rule analysis and visual comparisons of changes between versions, along with integrated testing and simulation capabilities using IBM WebSphere ILOG Decision Validation Services*

## Guided rule maintenance through

### Microsoft Office

IBM WebSphere ILOG Rule Solutions for Office® extends rule management to business experts throughout the enterprise. By loading a lightweight plug-in for Microsoft® Office Word and Excel, business users can work with file-based “ruledocs” that help them to author new rules or edit existing rules using familiar desktop tools, while enforcing the underlying application requirements of the systems that will invoke these rules in the production environment.

Rule Solutions for Office facilitates rule maintenance by:

- **Enabling flexibility of rule maintenance:** Rule projects or subsets of a project are extracted from Rule Team Server in the form of ruledocs, which can be shared and edited offline and then returned to Rule Team Server for implementation and deployment to production systems.

State	Age min	Age max	Accepted	Message
New York	21	65	True	The customer is eligible to rent in New York.
New York	≥ 66		False	The customer's age is past the maximum for rentals in New York.
New York	≤ 22		False	The customer's age is below the minimum for rentals in New Hampshire.
New Hampshire	23	70	True	The customer is eligible to rent in New Hampshire.
New Hampshire	≥ 71		False	The customer's age is past the maximum for rentals in New Hampshire.
Rhode Island	≤ 20		False	The customer's age is below the minimum for rentals in Rhode Island.
Rhode Island	21	70	True	The customer is eligible to rent in Rhode Island.
Rhode Island	≥ 71		False	The customer's age is past the maximum for rentals in Rhode Island.
Washington	≤ 20		False	The customer's age is below the minimum for rentals in Massachusetts.
Washington	21	89	True	The customer is eligible to rent in Massachusetts.
Washington	≥ 90		False	The customer's age is past the maximum for rentals in Massachusetts.
Massachusetts	≤ 20		False	The customer's age is below the minimum for rentals in Texas.
Massachusetts	21	60	True	The customer is eligible to rent in Texas.
Massachusetts	≥ 71		False	The customer's age is past the maximum for rentals in Texas.

Rule Solutions for Office extends rule authoring and maintenance across the enterprise

- **Providing guidance in authoring or editing rules:** Ruledocs contain the underlying details of the associated rule project. Rule logic and syntax errors are highlighted and IBM ILOG's Intellirule autocompletion editors provide users with interactive assistance.
- **Increasing business user productivity in the rule management life cycle:** Rule Solutions for Office allows people to work within familiar applications, maximizing their productivity. It also permits structured business rules and unstructured information relating to these rules to be combined for documentation purposes and a better understanding of business requirements.

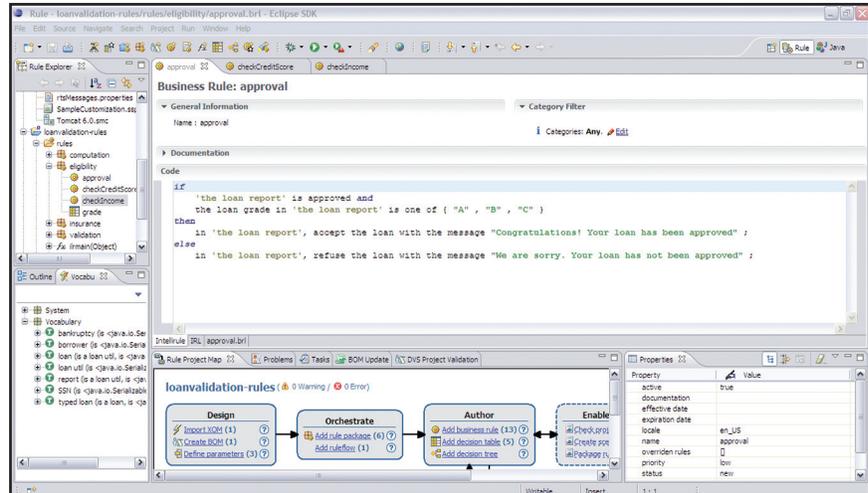
## Eclipse-based application development

JRules Rule Studio runs on the Eclipse integrated development environment (IDE), providing a single platform for modeling, coding, debugging and deploying rule-based applications. Developers and architects can easily apply their corporate development standards, best practices and processes for building and maintaining applications.

Rule Studio fully equips IT teams to:

- *Manage application code and rules in a single interface*
- *Develop iteratively through integrated testing, debugging and refactoring*
- *Control application development through integration with source-code control systems*
- *Extend rule maintenance and management to business users through synchronization with Rule Team Server*
- *Quickly learn rule-based application development with project guidance dashboards, out-of-the-box project templates and wizards that assist in creating business object models, simulation and testing scenarios and deploying rule services*

## Total support for IT teams



Rule Studio is an Eclipse-based development environment for rule-based applications

## Comprehensive deployment environment

JRules Rule Execution Server provides a complete management system for the deployment, execution and monitoring of business rules in the production environment. It gives IT operations everything they need to ensure the performance, scalability and reliability of rule-based applications.

Rule Execution Server ensures the integrity of deployed applications by:

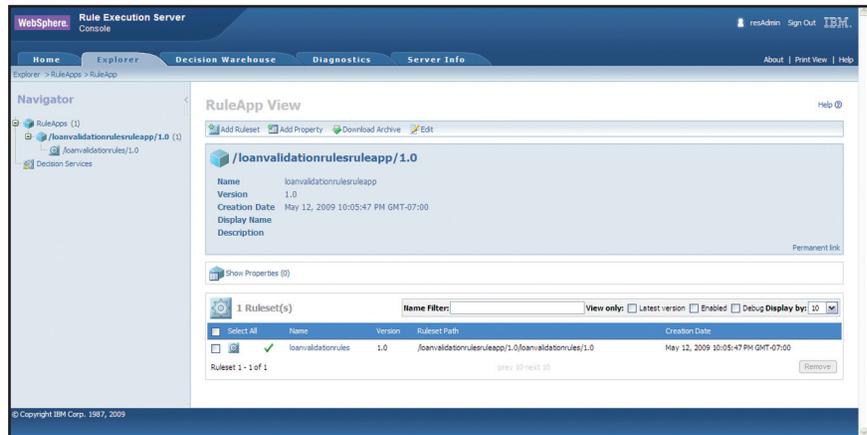
- **Using a robust, J2SE™/J2EE™-compliant architecture:** *IBM ILOG's industry-leading rule engine can be run on a variety of application servers and operating systems, offering unmatched scalability and performance for mission-critical systems.*

- **Offering comprehensive rule execution options:** *the JRules rule engine supports synchronous, asynchronous and web services-based invocation, with the ability to use either inference or sequential-based rule execution.*
- **Enabling hot deployment and roll-back of rule-based applications:** *Rule Execution Server prevents downtime and disruptions in the production environment.*
- **Providing monitoring services:** *Java™ Management Extensions (JMX™) and a web-based administration console provide diagnosis and monitoring of rule execution, as well as management of versioning and reporting for deployed applications. Monitoring services can also be easily integrated into other JMX-based tools, such as IBM Tivoli®.*

## JRules Business Rule Management System

The JRules BRMS product line delivers the most comprehensive, flexible and productive solution for creating, managing and deploying business rules:

- **Rule Team Server:** *A highly scalable rule repository with a collaborative web environment for authoring, managing, validating and deploying business rules, Rule Team Server provides easy, safe and predictable management and governance of rules. Adding Rule Solutions for Office extends rule maintenance by integrating with Rule Team Server and providing guided authoring and editing through Microsoft Office Word and Excel.*
- **Rule Studio:** *An integrated development environment (IDE) built on Eclipse, Rule Studio provides everything needed to build and maintain rule-based applications. It also enables IT development to easily implement rule management for business users through Rule Team Server and deploys applications into production through Rule Execution Server.*



Rule Execution Server enables IT Operations to manage and monitor deployed rule-based applications from a single web-based environment

- **Decision Validation Services:** *Delivering powerful ruleset testing, business impact simulation and rule execution auditing features, Decision Validation Services provides integrated capabilities for verifying the correctness of rules and simulating the impact of changes in business policies, along with powerful and intuitive tools for customizing testing and simulation frameworks to meet the needs of both IT and business users.*
- **Rule Execution Server:** *A robust J2SE- and J2EE-compliant execution environment, Rule Execution Server is used to deploy business rule applications and SOA-based decision services. Rule Execution Server includes a web administration console and components for synchronous, asynchronous and web service-based invocation of business rules. Rule Execution Server is fully integrated with Rule Studio and Rule Team Server to support business rule deployment for both developers and policy managers.*
- **Rules for COBOL:** *An optional add-on module for JRules, Rules for COBOL compiles business rules into COBOL copybook code that can be run natively inside existing COBOL applications.*



### For more information

To learn more about IBM WebSphere ILOG JRules BRMS, please contact your IBM marketing representative or IBM Business Partner, or visit the following Web site: <http://jrules.ilog.com>.

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