

Corticon Business Rules Modeling Studio

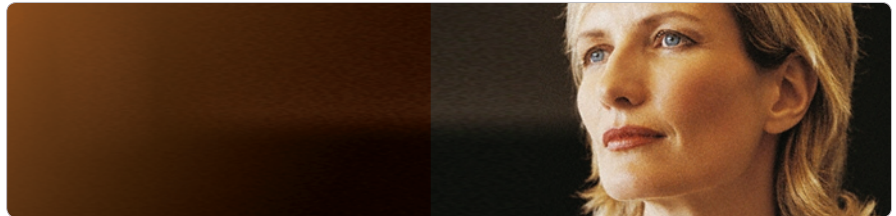
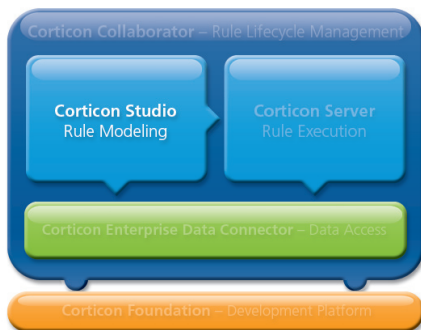
Agility: Collapse Your Rules Development Life Cycle



Corticon Business Rules Modeling Studio is a standalone desktop environment to model, analyze, test and save business rules as executable decision services.

Corticon Studio supports all aspects of the modeling process, from initial capture of business requirements through the testing of the decision against organizational data - delivering complete, deployment-ready decision services.

CORTICON BUSINESS RULES MANAGEMENT SYSTEM



Extend Rule Modeling Access To Everyone In Your Organization

Easy to learn and easy to use, Corticon Business Rules Modeling Studio makes modeling decisions and their business rules accessible to business professionals, business analysts and software developers alike. Corticon's model-driven approach eliminates the need for classic programming skills, with a spreadsheet metaphor that is easy to understand, yet still offers support for the most sophisticated decisions and business rules. Even skilled programmers get the benefit of significantly reduced development cycles when using Corticon Studio to create and maintain rule-based decision services. Within its environment you can model, analyze and test rule sets independent of any IT system, then save them as fully executable decision services.

Assure The Quality And Consistency Of Your Organization's Decisions

One of the greatest challenges to successful business rules projects is assuring that your business logic will produce the correct outcome for all possible test cases. The cost in time and resources to perform exhaustive functional testing is prohibitive. Corticon overcomes this challenge by ensuring that any rule model constructed and analyzed using Corticon Studio will produce the correct outcome every time it executes. Corticon Studio provides tools based on Corticon-patented logical analysis techniques that show you how to resolve all rule conflicts, ambiguities, and unintended logic loops. Missing business rules are automatically found and modeled for you. Scenario-based testing tools confirm correct model execution behavior for any number of user-defined test cases. You analyze and test your logic during modeling, which eliminates multiple hand-offs and the potential for classic communication problems when multiple people and tools are used to define, construct and test.

Optimize Model Performance And Scalability Every Time You Save

Corticon Business Rules Modeling Studio plays a leading role in the delivery of enterprise-class runtime performance and scalability. It automatically generates a performance-optimized, executable decision service every time it saves a rule set. This reduces the burden associated with fine tuning rule performance at run time.

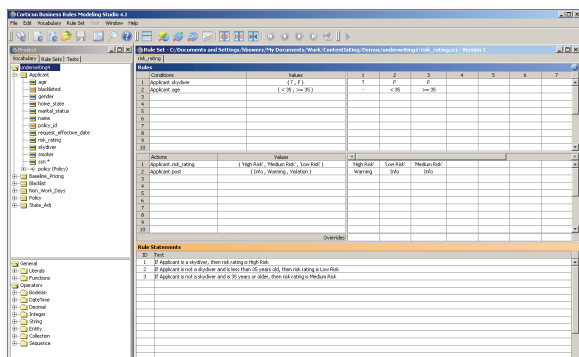
Key Features of The Corticon Business Rules Modeling

An intuitive spreadsheet environment to model, verify and test any business rules problem, regardless of its complexity.

Sophisticated, Intuitive Rule Modeling

Corticon Business Rules Modeling Studio provides a complete rule modeling framework and tools to make modeling easy to learn and easy to use. It automatically handles the underlying complexities of constructing business rules, so you can focus on the logic of your business decisions.

- **Capture Rules Requirements:** Capture your rules requirements as natural language versions of your business rules, organized into logical groups. These rule statements are used for reference during model construction. They also provide important traceability from requirement to implementation - to facilitate regulatory audits, documentation generation, and model maintenance. And they are used as outcome messages in the model itself - vital for testing and debugging prior to deployment, and for explaining outcomes of real decisions after deployment.
- **Intuitive Modeling Interface:** Build rule models by constructing rules within a graphical spreadsheet based on Corticon's patented enhanced decision table. Eliminate the need to memorize rule language operators or vocabulary by using drag-and-drop rule construction.



Modeling interface extends the spreadsheet metaphor

- **Comprehensive Modeling Language:** Corticon's modeling language is both easy to learn and fully comprehensive. Any business logic you could build using object-oriented or procedural programming can be modeled using Corticon's higher level declarative modeling language. You no longer have to tell the software how to accomplish a task; using declarative modeling, you tell the software what task you want accomplished.
- **Vocabulary Management:** Corticon's vocabulary represents the business terms used in modeling rules. It is the business representation of your application's data model and maps to your organization's data model. Supports user-defined vocabularies that consist of business-specific and industry-specific terms, their relationship to each other, and the type of data that can be assigned to them. You can model your vocabulary while modeling your business rules using the vocabulary editor, or import some or all of a data or object model described in UML or XML. You can create any number of vocabularies, and the same vocabulary can be reused as part of any number of rule models.
- **Extensible Rule Operator Library:** Choose from a large library of operators to construct your business rules. Similar to the Microsoft® Excel function library, the Corticon operator library includes many standard operators such as mathematical functions { +, -, *, / } and comparator functions { <, >, = }, as well as more specialized functions to handle collections and date-time calculations. The library is fully extensible, so if you need an operator that is not included, you can add it yourself.

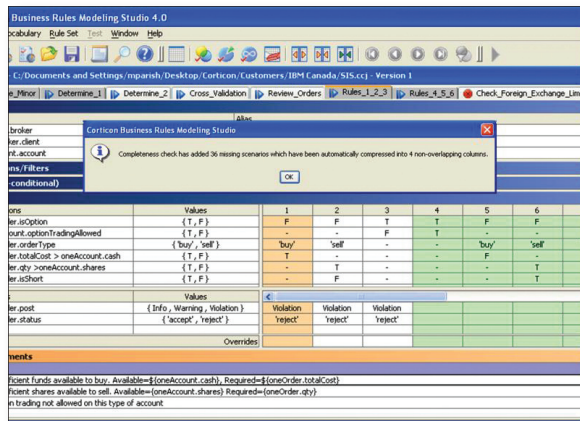
Advanced Analysis Tools For Decision Logic Validation

Corticon Studio includes patented technology that automatically identifies logical errors in your rule models, and provides iterative assistance in resolving them.

- **Ambiguity checker:** Highlights and describes conflicts between two or more rules on a rulesheet. Graphical tools show you exactly under which scenarios rules conflict, with expansion and filtering capabilities to facilitate visualization in complex rulesheets.

ing Studio

- **Completeness checker:** Identifies missing business rules, highlighting coverage gaps within a rulesheet both between and at the edges of a value range. Completeness checker then automatically generates the missing business rules.



Completeness Checker automatically fills out missing rules for you

- **Logical Loop checker:** Detects logical loops across all rules in all rulesheets, helping you find unintended loops that would cause your business logic to stall at runtime.

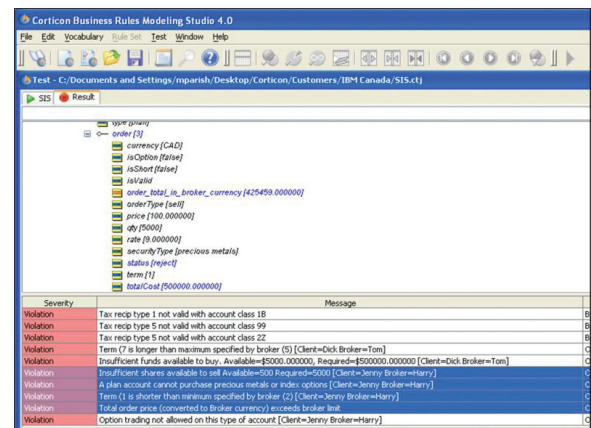
Comprehensive Scenario-Based Model Testing

Corticon Studio includes a complete test bed for functional testing of rule models at design time. It provides the foundation for unit testing, regression testing, and data-driven functional analysis at the granularity of a rule, rulesheet, or Rule Set.

- **Test Cases:** The primary building block of scenario testing are test cases that leverage the same vocabulary used to construct the business rules. You can construct sophisticated groups of tests that span multiple rule models, allowing you to test the interaction of rules which form a complex decision.
- **Test Against the Actual Rules Engine:** Run test cases one at a time or in batch through Studio's embedded rule engine (the same Rules Engine deployed in Corticon Business Rules Server), or direct the test case at a remote instance of Corticon Business Rules Server.

- **Debugging and Diagnosis:** Compare the values in expected result to actual result to identify possible errors. Test cases deliver the list of Rule Statements that were posted during execution allowing you to easily determine exactly how the results were created and more quickly find the root-cause of any problem in your business rules. For more complex decisions, you can pause after each Rulesheet executes to inspect the intermediate results of the business rules.

- **Reuse Test Cases and Test Data:** Populate the test cases by entering the test data by hand, or use a remote database to store test case data sets to enable reuse and regression testing.



Rule Statements explain the reasoning behind test results.

Template-based Reporting For Documentation and Audit

The Studio Reporting Framework is a flexible and extensible framework for generating HTML reports from Vocabulary, Rule Set, and Test files. View and print using any web browser, or publish them in the corporate content management system.

Summary Of Benefits

- Extend rule modeling access to everyone in your organization
- Assure the quality and consistency of your organization's decisions
- Optimize model performance and scalability every time you save

Summary Of Features

- Sophisticated, intuitive rule modeling
- Advanced analysis tools for decision logic validation
- Comprehensive scenario-based model testing
- Template based reporting for documentation and audit

Integral Part of the Corticon Business Rules Management System (BRMS)

Corticon Business Rules Modeling Studio works as a standalone modeling environment, or as a part of the Corticon Business Rules Management System. It communicates directly with the central repository in the Corticon Business Rules Collaborator to share vocabularies, rule sets and test scenarios across the organization. It plugs in to the Corticon Enterprise Data Connector to enable model-driven data integration. And it creates the deployment files needed by Corticon Business Rules Server to integrate and execute the rules as a decision service. When used together, these products provide a complete platform for managing the life cycle of decisions across the enterprise.

Compatible Third-Party Modeling Tools

- v3.x and above: Rational Rose and other XMI-compliant export sources

System Requirements

- Operating System Microsoft Windows 2000 or XP
- Processor Pentium 3-class or compatible CPU
- Hard Disk Space 70 MB disk space
- Memory 128 MB RAM

About Corticon

Corticon Technologies delivers Business Rules Management solutions that unleash "The Power of Decisions™", as enterprise assets. Many of the world's most successful organizations rely on Corticon to discover, model, execute and improve operational decisions (and associated business rules) within their enterprise systems. Recognized as a leading business rules vendor by industry analysts and thought leaders, Corticon's patented Business Rules Management System is the only solution with a model-driven design environment that guarantees the consistent, efficient and reliable execution of a company's business rules and decisions. Corticon is a privately held company headquartered in Redwood City, California, with European headquarters in The Netherlands, worldwide distribution through local Corticon offices, and an extensive partner network. Corticon's products are in use today at many of the world's largest banks, insurance companies, media companies, telecommunication providers and government organizations, collectively automating millions of decisions per day.

For more information, call Corticon today at +1.888.619.2424 or email us at info@corticon.com

Corticon Global

Corporate Headquarters
1000 Bridge Parkway
Redwood City, CA 94065
Telephone: +1 888.619.2424
Fax: +1 650.212.2727
Email: info@corticon.com

Corticon Europe
Suite 16
3335 EB Zwijndrecht
The Netherlands
Telephone: +31 78.629.0203
Fax: +31 78.629.0202
Email: info@corticon.com

Sales
sales@corticon.com
Investors
investors@corticon.com
Public Relations
pr@corticon.com

Partnerships
alliances@corticon.com
Technical Support
support@corticon.com