

# ILOG Rules for .NET

## Business rule management for Microsoft .NET



### Setting the rules for .NET

Business rules provide a proven way to capture business logic in enterprise applications. These applications are widely maintained with business rule management systems (BRMSs). As more companies adopt Microsoft .NET, they want to use it to apply business rules. The ILOG Rules for .NET BRMS makes this possible by enabling companies to tap the power and flexibility of ILOG's advanced business rule technology through the .NET platform

### Support for IT and business users

ILOG Rules for .NET offers complete management of business rules throughout their life cycle and across mission-critical business applications. For business analysts and other business users, it provides business rule authoring and management tools through Microsoft Office and a Web-based user interface. Application architects and developers get a set of tools within Microsoft Visual Studio .NET that lets them integrate ILOG business rule technology directly into .NET applications. As a result, the leader in BRMS technology brings its best to the Microsoft world.

### Collaborate on "company assets"

ILOG Rules for .NET provides tools and mechanisms that facilitate communication and collaboration on business rules to accurately reflect company policies and the way business is conducted. Employees benefit from a short learning curve and an easy-to-use development environment that supports the way they work, while IT works with advanced functionality in a familiar development environment. ILOG Rules for .NET is the win-win BRMS for today's competitive companies.

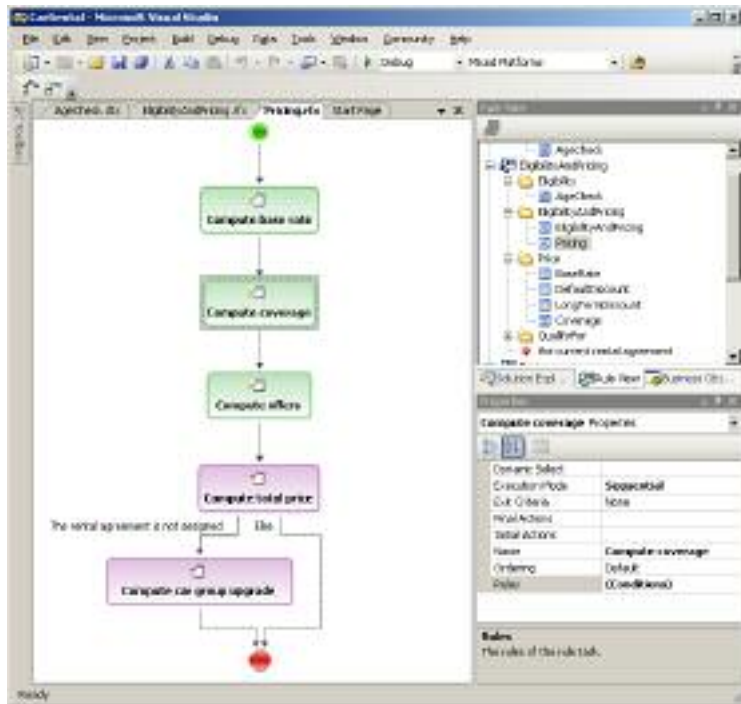
- Full support for .NET platform
- Integration with Microsoft Visual Studio
- Business rules through Microsoft Office System
- Unequalled performance



Changing the rules of business™

# ILOG Rules for .NET

## Business rule management



ILOG Rule Studio for .NET

### For developers and application architects . . .

ILOG Rules for .NET includes comprehensive functionality for developing and maintaining business rule applications:

- **Microsoft Visual Studio integration** – As a Microsoft VSIP partner, ILOG delivers a set of modules for Visual Studio 2003 and 2005. This enables the authoring, testing and deployment of business rules within a single, familiar integrated development environment (IDE). By enabling application architects and developers to handle both business rules and application source code without leaving Visual Studio, they immediately realize a significant gain in productivity in building rule-based applications for the .NET platform.
- **Business object model view** – Business rules can be expressed with familiar business terms and mapped directly to .NET objects using an object model view that reflects the structure of the business domain rather than the underlying technical implementation.

- **Business rule editor** – A visual rule editor that uses a general-purpose business rule language with natural language syntax designed to cover most common needs for writing business rules. This greatly simplifies the task of writing business rules.
- **Decision table editor** – Developers can use ILOG Rule Studio for .NET to reflect company business policies in decision tables, which are excellent for visualizing and managing large sets of rules. This gives users a more concise representation of business rules, and a common means for communicating with business users.
- **Ruleflow editor** – The sequence and conditional invocation for firing rules can be controlled within ILOG Rule Studio for .NET using the Ruleflow mechanism. It graphically represents rules and allows the user to state the order in which the rules are applied in response to specific conditions.
- **Direct execution on .NET objects** – ILOG Rules for .NET provides an application programming interface (API) compliant with the Common Language Runtime (CLR). Rules can be executed directly on CLR objects, enabling them to be run on top of .NET (CLR) objects, XML Web services, XML streams and ADO.NET data sources.

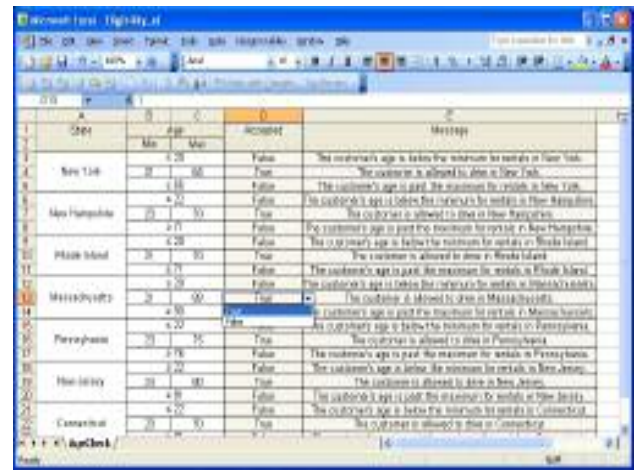


# Tap the productivity of Microsoft Office System

## For business analysts and business users . . .

ILOG Rule Solutions for Office enables nontechnical business experts to edit RuleDocs™, smart Office documents that contain business rules. This module makes it possible for business users to author and manage rules using the world's most popular office productivity applications.

Users quickly learn how to write rules through a rule editor integrated with Microsoft Word. This plug-in rule editor supports the writing of business rules with a natural language syntax. Rule Solutions for Office also provides full use of decision tables – a convenient way to visualize and express business rules with Microsoft Excel.



The screenshot shows a Microsoft Excel spreadsheet titled "ILOG Rule Solutions for Office". The spreadsheet is a decision table with columns for "Age", "Gender", "Marital Status", "Income", and "Message". The rows represent different business rules. The first row is highlighted in yellow.

|     | Age       | Gender | Marital Status | Income   | Message  |
|-----|-----------|--------|----------------|----------|--|
| 1   | 20-29     | Male   | Single         | \$10,000 | The customer's age is below the minimum for males in New York.   |
| 2   | 30-39     | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 3   | 40-49     | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 4   | 50-59     | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 5   | 60-69     | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 6   | 70-79     | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 7   | 80-89     | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 8   | 90-99     | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 9   | 100-109   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 10  | 110-119   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 11  | 120-129   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 12  | 130-139   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 13  | 140-149   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 14  | 150-159   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 15  | 160-169   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 16  | 170-179   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 17  | 180-189   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 18  | 190-199   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 19  | 200-209   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 20  | 210-219   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 21  | 220-229   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 22  | 230-239   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 23  | 240-249   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 24  | 250-259   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 25  | 260-269   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 26  | 270-279   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 27  | 280-289   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 28  | 290-299   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 29  | 300-309   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 30  | 310-319   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 31  | 320-329   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 32  | 330-339   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 33  | 340-349   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 34  | 350-359   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 35  | 360-369   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 36  | 370-379   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 37  | 380-389   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 38  | 390-399   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 39  | 400-409   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 40  | 410-419   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 41  | 420-429   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 42  | 430-439   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 43  | 440-449   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 44  | 450-459   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 45  | 460-469   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 46  | 470-479   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 47  | 480-489   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 48  | 490-499   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 49  | 500-509   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 50  | 510-519   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 51  | 520-529   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 52  | 530-539   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 53  | 540-549   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 54  | 550-559   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 55  | 560-569   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 56  | 570-579   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 57  | 580-589   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 58  | 590-599   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 59  | 600-609   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 60  | 610-619   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 61  | 620-629   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 62  | 630-639   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 63  | 640-649   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 64  | 650-659   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 65  | 660-669   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 66  | 670-679   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 67  | 680-689   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 68  | 690-699   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 69  | 700-709   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 70  | 710-719   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 71  | 720-729   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 72  | 730-739   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 73  | 740-749   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 74  | 750-759   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 75  | 760-769   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 76  | 770-779   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 77  | 780-789   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 78  | 790-799   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 79  | 800-809   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 80  | 810-819   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 81  | 820-829   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 82  | 830-839   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 83  | 840-849   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 84  | 850-859   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 85  | 860-869   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 86  | 870-879   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 87  | 880-889   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 88  | 890-899   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 89  | 900-909   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 90  | 910-919   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 91  | 920-929   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 92  | 930-939   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 93  | 940-949   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 94  | 950-959   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 95  | 960-969   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 96  | 970-979   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 97  | 980-989   | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 98  | 990-999   | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |
| 99  | 1000-1009 | Male   | Single         | \$10,000 | The customer's age is above the maximum for males in New York.   |
| 100 | 1010-1019 | Female | Married        | \$10,000 | The customer's age is above the maximum for females in New York. |

ILOG Rule Solutions for Office

## For collaboration among users . . .

A central storage system for business rules and their metadata, ILOG Rule Team Server for SharePoint is an extensible central repository. It serves as the foundation for extensive business rule management functionality:

- **Microsoft Windows SharePoint Services integration** – The Rule Team Server is built on top of SharePoint Services as the single place for business people to share and collaborate on rules. Users leverage SharePoint Services team collaboration features such as document and meeting workspaces, user presence, discussion boards, tasks and alerts.
- **Web-based management** – A set of Web-based components (WebParts) enables the management of business rules stored in the ILOG Rule Team Server for SharePoint. These components include tools for organizing and authoring business rules and associated metadata, and a point-and-click editor for writing business rules with a natural language syntax.
- **Rule repository** – The central storage area, it holds business rules and their metadata. Business rules are stored in XML documents that allow the user to see all the rules for a given policy together in one document, facilitating their upkeep.
- **Versioning** – The team server applies the file versioning capabilities of SharePoint Services to manage multiple versions of business rules for auditing and rollback.
- **Concurrent access** – Check-in and check-out functions are provided for files containing rules. Users can lock a file while working on it to prevent others from overwriting or editing the file.
- **Team workspaces** – Teams can create workspace sites for collaborating on business rules. Access to these workspaces can be controlled with SharePoint Services management tools.

# ILOG Rules for .NET

## Business rule management for Microsoft .NET

### Execute rules with confidence

ILOG's rule engines have long led the field, setting standards followed throughout the industry. ILOG Rule Engine for .NET continues this tradition, giving .NET developers the power and versatility needed for today's demanding applications:

- **Native .NET rule engine** – Written entirely in C#, the rule engine is packaged as a .NET assembly that can be used with any programming language supported by the .NET platform (e.g. C#, VB.NET and Managed C++). This allows seamless integration of the rule engine with any .NET application independent of architecture and programming languages. The rule engine can be integrated with solutions built on ASP.NET, Windows Forms, XML Web Services and Microsoft Office.
- **High performance and scalability** – The .NET rule engine has the same level of performance and scalability as ILOG's market-leading rule engine: ILOG JRules. This ensures best-in-class performance and scalability for a wide variety of applications.
- **Support for different data sources** – The rule engine supports a wide variety of application and data integration scenarios. The rule engine can access numerous data sources, including .NET objects, legacy COM(+) applications, XML documents, databases, XML Web Services, Message Queues, Active Directory and Exchange Server data stores.

### Learn More

For further information on ILOG Rules for .NET, contact an ILOG Sales Representative near you or visit <http://rulesfordotnet.ilog.com>.



"We applaud ILOG's move on Rules for .NET, which is delivering the ultimate business rules tool for .NET architects and developers, with its integration with MS Visual Studio .NET. ILOG is also driving business rules' mainstream adoption since its business rules authoring tool is available for the business users from MS Office."

– Eric Hébert  
Senior Software Developer  
Team Leader  
20-20 Technologies Inc.



ISV Software Solutions



### ABOUT ILOG

ILOG delivers software and services that empower customers to make better decisions faster and manage change and complexity. Over 2,500 global corporations and more than 465 leading software vendors rely on ILOG's market-leading business rule management system (BRMS), optimization and visualization software components, to achieve dramatic returns on investment, create market-defining products and services, and sharpen their competitive edge. The BRMS market share leader, ILOG was founded in 1987 and employs more than 700 people worldwide.

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