

# webMethods Business Rules 9.12 Readme

October 2016

This file contains important information you must read before using webMethods Business Rules 9.12. You can find system requirements, user documentation, and installation and upgrade instructions on the [Documentation website](#) or the [TECHcommunity website](#). At those locations, you can also find suite-related security and globalization information.

Included in this file is information about functionality that has been added, removed, deprecated, or changed for this product. Deprecated functionality continues to work and is supported by Software AG, but may be removed in a future release. Software AG recommends against using deprecated functionality in new projects.

1.0	Critical Information.....	1
2.0	Known Issues.....	2
3.0	Usage Notes.....	3
4.0	Fixes Included in Each Release.....	4
5.0	Other Resolved Issues.....	6
6.0	Documentation Changes .....	9
7.0	Terminology Changes .....	10
8.0	Added, Removed, Deprecated, or Changed Items.....	10
9.0	Added, Removed, Deprecated, or Changed Built-In Services.....	10
10.0	Added, Removed, Deprecated, or Changed Parameters.....	11
11.0	Added, Removed, Deprecated, or Changed APIs .....	11
12.0	Copyright Information.....	13
13.0	Support.....	13

## 1.0 Critical Information

This section lists any critical issues for the current release that were known when this readme was published. For critical information found later, go to the Knowledge Center on the [Empower website](#).

## 2.0 Known Issues

This section lists any critical issues for the current release that were known when this readme was published. For known issues found later, go to the Knowledge Center on the [Empower website](#).

### ***Rules Management Console***

- WOK-10663  
In effect information for decision trees is lost when a rule project is imported from the Rules Management Console to Software AG Designer.  
This problem occurs with decision trees that have in effect information assigned at top level and/or at result node level. In effect information is assigned in the Rules Management Console. If a rule project containing decision trees with in effect information is imported to Software AG Designer, and the decision trees are modified, the in effect information is lost. If the rule project is exported back to the My webMethods Server repository and opened in the Rules Management Console, the in effect information must be reentered at top or result node level.  
There is currently no workaround for this issue.
- WOK-10662  
Decision tree changes are lost when using direct edit mode (inline editor).  
Changes made to a decision tree element using direct edit mode are lost when other changes are made with the modification dialog afterwards.  
As a workaround, modify decision trees only with the modification dialog.
- WOK-10657  
Marking a decision table column as principal and adding a data provider service leads to an exception.  
When a decision table column is marked as principal and a data provider service is configured in Software AG Designer, editing a cell in this column leads to an `IndexOutOfBoundsException` in the Rules Management Console.  
As a workaround, either mark a column as principal or configure a data provider service for this column.
- WOK-10614  
Default values on condition nodes are not validated.  
In decision trees, the data type of a default value for a condition node is not validated. It is possible to save an invalid default value which can result in a runtime error.  
There is currently no workaround for this issue.
- WOK-10485  
Decision trees with date conditions and results can show the wrong date or time.  
Date/time editing can save wrong date/time information in a decision tree. This can happen when the browser time zone is different from the user preferred time zone on My webMethods Server.  
There is currently no workaround for this issue.

## ***Rules Development***

- WOK-10663

In effect information for decision trees is lost when a rule project is imported from the Rules Management Console to Software AG Designer.

This problem occurs with decision trees that have in effect information assigned at top level and/or at result node level. In effect information is assigned in the Rules Management Console. If a rule project containing decision trees with in effect information is imported to Software AG Designer, and the decision trees are modified, the in effect information is lost. If the rule project is exported back to the My webMethods Server repository and opened in the Rules Management Console, the in effect information must be reentered at top or result node level.

There is currently no workaround for this issue.

## **3.0 Usage Notes**

This section provides any additional information you need to work with the current release of this product.

### ***Rules Engine***

- It is possible to design rules that evaluate in an infinite loop at runtime. webMethods Rules Engine has no validation logic to identify possible infinite loops at design time. With the help of the Run As... option, the rule designer can execute rules locally in webMethods Rules Engine to test and verify rule behavior. This local rule execution might expose loops at design time.

### ***Rules Development***

- It is possible to design rules that evaluate in an infinite loop at runtime. webMethods Rules Development has no validation logic to identify possible infinite loops at design time. With the help of the Run As... option, the rule designer can execute rules locally in webMethods Rules Development to test and verify rule behavior. This local rule execution might expose loops at design time.

### ***Rules Management Console***

- If you upgrade a rule project in the Rules Management Console from a version prior to 9.10, you must assign access rights to users who are supposed to see the new navigation tree item Decision Trees.

## 4.0 Fixes Included in Each Release

This section lists the latest fix level that has been included in each release for each product component. A release is listed in this section only if changes occurred in that release. Go to the Knowledge Center on the [Empower website](#) for detailed information about fixes.

### ***Rules Engine***

#### *Release 9.12*

- WOK\_9.7\_RuleEngine\_Fix5
- WOK\_9.10\_RuleEngine\_Fix1

#### *Release 9.10*

- WOK\_9.7\_RuleEngine\_Fix3

#### *Release 9.9*

- WOK\_9.8\_RuleEngine\_Fix1

#### *Release 9.8*

- WOK\_9.6\_RuleEngine\_Fix4
- WOK\_9.7\_RuleEngine\_Fix1

### ***Rules Management Console***

#### *Release 9.12*

- WOK\_9.10\_RMC\_Fix1
- WOK\_9.9\_RMC\_Fix1
- WOK\_9.8\_RMC\_Fix4
- WOK\_9.7\_RMC\_Fix5

#### *Release 9.10*

- WOK\_9.8\_RMC\_Fix3
- WOK\_9.7\_RMC\_Fix3

### *Release 9.9*

- WOK\_9.8\_RMC\_Fix2
- WOK\_9.7\_RMC\_Fix2
- WOK\_9.6\_RMC\_Fix6

### *Release 9.8*

- WOK\_9.7\_RMC\_Fix1
- WOK\_9.6\_RMC\_Fix4

### *Release 9.7*

- WOK\_9.6\_RMC\_Fix2

## ***Rules Development***

### *Release 9.12*

- WOK\_9.10\_RuleDesigner\_Fix1
- WOK\_9.7\_RuleDesigner\_Fix5

### *Release 9.9*

- WOK\_9.8\_RuleDesigner\_Fix1

### *Release 9.8*

- WOK\_9.6\_RuleDesigner\_Fix4
- WOK\_9.7\_RuleDesigner\_Fix1

### *Release 9.7*

- WOK\_9.6\_RuleDesigner\_Fix1

## 5.0 Other Resolved Issues

This section lists the issues that were resolved in each release but were not part of the fixes listed in the previous section. A release is listed in this section only if changes occurred in that release.

### ***Rules Engine***

#### *Release 9.7*

- WOK-5660  
Internal event rules do not fire directly after a New Data Action was executed.  
If a rule result contains a New Data Action to create a new instance of a data model and also an assignment result to assign a value to this new instance of a data model, internal event rules that listen for a “has changed” event on this new instance of a data model will not fire.  
This issue has been resolved.

### ***Rules Management Console***

#### *Release 9.10*

- WOK-8983  
Rule project migration via Public API fails in AIX environment.  
On AIX OS, invoking the Rules REST API service  
PUT `http://%mws_host%:%port%/wm_rma/rest/raw/project/%ruleProjectName%`  
with a rule project created in a version prior to 9.9 results in an HTTP error 400 and a  
“RuleProjectTransformationException ... ”.  
This issue has been resolved.

#### *Release 9.9*

- WOK-8197  
Cancel button does not cancel all changes and may cause an exception on Internet Explorer 11.  
On Internet Explorer 11, the cancel button in the decision entity editor will not cancel all edits if only an operator and no value were selected as cell content. Upon closing and re-opening the decision table, an exception may occur.  
This issue has been resolved.
- WOK-8110  
Show hidden warnings link causes an exception if no decision entity is selected.  
If no decision entity is selected in the Rules Management Console, clicking on the Show hidden warnings link in the Rule Project Verification window causes a NullPointerException.  
This issue has been resolved.

## *Release 9.8*

- WOK-7465  
Rows added to decision tables are lost when assigning principals.  
When assigning principals to two or more condition cells or result cells, the rows added to a decision table are lost.  
This issue has been resolved.

## **Rules Development**

### *Release 9.9*

- WOK-8178  
Restore Defaults button on the Rule Verification Preference page produces error.  
If the Optimistic radio button on the Rule Verification Preference page is selected, and you click Restore Defaults, both radio buttons (optimistic and pessimistic) are checked.  
This issue has been resolved.
- WOK-8031  
Content assist error dialog may appear when editing rules.  
When editing rules, an Errors During Content Assist dialog may appear.  
This issue has been resolved.
- WOK-8112  
Misleading message appears when deleting an unused parameter.  
A misleading message appears when trying to delete an unused parameter, as unused parameters cannot be successfully deleted.  
This issue has been resolved.

### *Release 9.8*

- WOK-7515  
When dragging and dropping a decision entity into a rule set, an exception is thrown.  
An exception is thrown when dragging and dropping one or more decision entities into a rule set.  
The action is successful and the items are copied.  
This issue has been resolved.
- WOK-7516  
Right-clicking a result row in an external event rule causes an exception.  
A problem exists when selecting result rows in an external event rule. A “ClassCastException” is reported to the error log, and the ability to cut, copy and paste is disabled. In addition, it is not possible to open the context menu.  
This issue has been resolved.
- WOK-7520  
Data model generation can fail when model fields contain special characters.

When generating a new data model from document types that contain certain special characters, the generated fields are not complete and are incorrect. This can result in incorrect decision column header names and errors in functions.

This issue has been resolved.

- WOK-7530

An exception occurs before a rule project is upgraded.

When attempting to open a decision table that requires an upgrade to version 9.7, a “NullPointerException” is reported to the error log. The decision table is still opened within an upgrade editor, and it is still possible to upgrade to 9.7.

This issue has been resolved.

- WOK-7533

When exporting or importing a rule project to or from a My webMethods Server repository, a misleading error message is displayed.

When attempting to export or import a rule project to or from a My webMethods Server repository, the error message does not contain sufficient information if the credentials for the My webMethods Server connection are invalid. The error message states: “Can’t connect to server. Check the connection!”

This issue has been resolved.

- WOK-7544

Problems occur when special characters are used in functions.

When the names of parameter elements that are used in functions contain dot, percent, backslash or double quote characters, errors occur when editing the functions.

This issue has been resolved.

### *Release 9.7*

- WOK-5660

Internal event rules do not fire directly after a New Data Action was executed.

If a rule result contains a New Data Action to create a new instance of a data model and also an assignment result to assign a value to this new instance of a data model, internal event rules that listen for a “has changed” event on this new instance of a data model will not fire.

This issue has been resolved.

- WOK-6708

Cannot add “,” to separate parameters in a function list.

When selecting two parameter elements as parameter to a function, it is not possible to manually add a “,” character to separate the parameter elements.

This issue has been resolved.

### *Release 9.6*

- WOK-5698

Renaming a rule project ignores event models.

When renaming a rule project which contains an event model, the event model is not correctly



renamed as well. This leads to a “com.softwareag.rules.metaphor.RuleConversionException” when the renamed rule project is being built.

This issue has been resolved.

## 6.0 Documentation Changes

This section describes significant changes to the documentation, such as the addition, relocation, or removal of product guides, online help, chapters, or other major content. A release is listed in this section only if changes occurred in that release.

### ***Rules Management Console***

#### *Release 9.12*

- Information about editing decision trees and working with a data provider service was added.
- Additional API REST services were documented in the webMethods Business Rules Reference help.

#### *Release 9.10*

- Chapter “Working with Decision Trees” was added.

#### *Release 9.9*

- API REST services were documented in the webMethods Business Rules Reference help.

#### *Release 9.8*

- Chapter “Working with Functions” was renamed to “Working with Expressions” and modified.
- All function descriptions were removed from the Working with Business Rules in My webMethods guide and assembled in the new webMethods Business Rules Reference help.
- Changes in the user interface were documented.

#### *Release 9.7*

- Chapter “Working with Functions” was added.
- Description of setting an in effect date was added.
- Description of assigning a principal was added.
- Description of new rule verification categories was added.
- Description of changing rule order was added.

- Description of setting viewing preferences was added.

## ***Rules Development***

### *Release 9.12*

- Information about working with a data provider service was added.

### *Release 9.10*

- Chapter “Working with Decision Trees” was added.

### *Release 9.8*

- Chapter “Working with Functions” was renamed to “Working with Expressions” and modified.
- All descriptions of functions, built-in services and rules-related event types were removed from the webMethods BPM Rules Development help and assembled in the new webMethods Business Rules Reference help.

### *Release 9.7*

- Chapters “Working with Functions”, “Working with Rules-Related Event Types” were added.
- Description of cut/copy/paste functionality was added.
- Description of new rule verification categories was added.

## **7.0 Terminology Changes**

A release is listed in this section only if changes occurred in that release.

## **8.0 Added, Removed, Deprecated, or Changed Items**

This section lists functionality, controls, portlets, properties, or other items that have been added, removed, deprecated, or changed. A release is listed in this section only if changes occurred in that release.

## **9.0 Added, Removed, Deprecated, or Changed Built-In Services**

A release is listed in this section only if changes occurred in that release.

## 10.0 Added, Removed, Deprecated, or Changed Parameters

A release is listed in this section only if changes occurred in that release.

## 11.0 Added, Removed, Deprecated, or Changed APIs

A release is listed in this section only if changes occurred in that release.

### Release 9.12

Added API	Description
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%	Updates the specified decision tree in the given rule project with the provided decision tree JSON.
GET <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/condition_nodes/%conditionNodeId%	Retrieves a condition node with the specified conditionNodeId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/condition_nodes/%conditionNodeId%	Updates a condition node with the specified ConditionNode JSON for the conditionNodeId in the given decision tree and rule project.
GET <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/lines/%lineId%	Retrieves a condition line with the specified lineId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/lines/%lineId%	Updates a condition line with the specified Line JSON for the lineId in the given decision tree and rule project.
GET <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/result_nodes/%resultNodeId%	Retrieves a result node with the specified resultNodeId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/result_nodes/%resultNodeId%	Updates a result node with the specified ResultNode JSON for the resultNodeId in the given decision tree and rule project.
GET <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/results/%resultId%	Retrieves a result with the specified resultId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/results/%resultId%	Updates a result with the specified Result JSON for the resultId in the given decision tree and rule project.
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/lock	Locks a decision tree so that it can be modified exclusively by the user applying the lock.

Added API	Description
PUT <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%/unlock	Unlocks a decision tree so that it can be locked by another user for exclusive modification.

## **Release 9.10**

Added API	Description
GET <base URL>/projects/%ruleProjectName%/decision_trees/%decisionTreeName%	Returns the specified decision tree.
PUT <base URL>/project/%ruleProjectName%/unlockall	Unlock all entities of a rule project and the project itself.

## **Release 9.9**

Added API	Description
GET <base URL>/projects	Returns a list of rule projects that are currently available on My webMethods Server.
GET <base URL>/project/%ruleProjectName%	Returns the content and metadata for a given rule project.
PUT <base URL>/project/%ruleProjectName%/lock	Locks the given rule project.
PUT <base URL>/project/%ruleProjectName%/unlock	Unlocks the given rule project.
GET <base URL>/project/%ruleProjectName%/decisiontable/%decisionTableName%	Retrieves the given decision table.
PUT <base URL>/project/%ruleProjectName%/decisiontable/%decisionTableName%	Writes the changes for the given decision table to the My webMethods Server.
PUT <base URL>/project/%ruleProjectName%/decisiontable /%decisionTableName%/lock	Locks the given decision table.
PUT <base URL>/project/%ruleProjectName%/decisiontable /%decisionTableName%/unlock	Unlocks the given decision table.
POST <base URL>/project/%ruleProjectName%/deploy	Hot deploys the given rule project to an Integration Server that was configured on the My webMethods Server.
GET <base URL>/project/%ruleProjectName%	Retrieves the given rule project from the My webMethods Server.
PUT <base URL>/project/%ruleProjectName%	Stores the given rule project on the My webMethods Server.

Added API	Description
DELETE <base URL>/project/ %ruleProjectName%	Deletes the given rule project from the My webMethods Server.

## 12.0 Copyright Information

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## 13.0 Support

Visit the [Empower website](#) to learn about support policies and critical alerts, read technical articles and papers, download products and fixes, submit feature/enhancement requests, and more.

Visit the [TECHcommunity website](#) to access additional articles, demos, and tutorials, technical information, samples, useful resources, online discussion forums, and more.

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