

TIBCO BusinessEvents®

Decision Manager

Release Notes

*Software Release 5.4.1
June 2017*

Two-Second Advantage®



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Contents

Preface	v
Typographical Conventions	vi
Connecting with TIBCO Resources	ix
How to Join TIBCO Community	ix
How to Access TIBCO Documentation	ix
How to Contact TIBCO Support	ix
Release Notes	1
New Features	2
Release 5.4.1	2
Release 5.4.0	2
Release 5.3.0	2
Release 5.2.2	2
Release 5.2.1	2
Release 5.2.0	2
Release 5.1.4	2
Release 5.1.3	2
Release 5.1.2	3
Release 5.1.1	3
Release 5.1	3
Release 5.0.1	3
Release 5.0	3
Changes in Functionality	4
Release 5.4.1	4
Release 5.4.0	4
Release 5.3.0	4
Release 5.2.2	4
Release 5.2.1	4
Release 5.2.0	4
Release 5.1.4	4
Release 5.1.3	5
Release 5.1.2	5
Release 5.1.1	5
Release 5.1	5
Release 5.0.1	5
Release 5.0	5
Deprecated and Removed Features	6

- Deprecated Features 6
- Removed Features. 7
- Migration and Compatibility 9
 - Release 5.4.1 9
 - Release 5.4.0 9
 - Release 5.3.0 9
 - Release 5.2.2 9
 - Release 5.2.1 9
 - Release 5.2.0 9
 - Release 5.1.4 9
 - Release 5.1.3 10
 - Release 5.1.2 10
 - Release 5.1.1 10
 - Release 5.1 10
 - Release 5.0.1 10
 - Release 5.0 10
- Closed Issues 11
- Known Issues 20

Preface

TIBCO BusinessEvents[®] Decision Manager is an add-on to TIBCO BusinessEvents. This add-on provides TIBCO BusinessEvents Decision Manager Desktop Application and Rules Management Server features. Using these features, you can author, test, and submit rules for approval and deployment to a TIBCO BusinessEvents application.

TIBCO BusinessEvents
The Power to Predict[®]

Topics

- [Typographical Conventions, page vi](#)
- [Connecting with TIBCO Resources, page ix](#)

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>ENV_NAME</i> <i>TIBCO_HOME</i> <i>BE_HOME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none">• Name Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start > All Programs menu.• Path The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>. <p>TIBCO BusinessEvents installs into a directory within a <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>BE_HOME</i>. The default value of <i>BE_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\be\5.4.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• In procedures, to indicate what a user types. For example: Type admin.• In large code samples, to indicate the parts of the sample that are of particular interest.• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: MyCommand [enable disable]

Table 1 General Typographical Conventions (Cont'd)




Convention	Use
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none"> To indicate a document title. For example: See <i>TIBCO ActiveMatrixBusinessWorks Concepts</i>. To introduce new terms. For example: A portal page may contain several <i>portlets</i>. Portlets are mini-applications that run in a portal. To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand PathName</code>
Key combinations	<p>Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Table 2 Syntax Typographical Conventions

Convention	Use
[]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <pre>MyCommand [optional_parameter] required_parameter</pre>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <pre>MyCommand param1 param2 param3</pre>

Table 2 *Syntax Typographical Conventions*

Convention	Use
{ }	<p>A logical group of items in a command. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either the pair param1 and param2, or the pair param3 and param4.</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be param1. You can optionally include param2 as the second parameter. And the last parameter is either param3 or param4.</p> <pre>MyCommand param1 [param2] {param3 param4}</pre>

Connecting with TIBCO Resources

This section provides links to helpful TIBCO resources.

How to Join TIBCO Community

TIBCO Community is an online destination for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community. TIBCO Community offers forums, blogs, and access to a variety of resources. To register, go to the following web address:

<http://www.community.tibco.com>

How to Access TIBCO Documentation

You can access TIBCO documentation here:

<http://docs.tibco.com>

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, contact TIBCO Support as follows:

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

<http://www.tibco.com/services/support>

- If you already have a valid maintenance or support contract, visit this site:

<https://support.tibco.com>

Entry to this site requires a user name and password. If you do not have a user name, you can request one.

Release Notes

Check the TIBCO Product Support web site at <https://support.tibco.com> for product information that was not available at release time. Entry to this site requires a username and password. If you do not have a username, you can request one. You must have a valid maintenance or support contract to use this site.

As is standard in a major release, this edition of the release notes has been purged of all content pertaining to prior releases. To see information pertaining to a prior release, see the release notes provided with that release.

Topics

- [New Features, page 2](#)
- [Changes in Functionality, page 4](#)
- [Deprecated and Removed Features, page 6](#)
- [Migration and Compatibility, page 9](#)
- [Closed Issues, page 11](#)
- [Known Issues, page 20](#)

New Features

This section lists features added since the last major (x.0) release of this product.

Release 5.4.1

There are no new features in this release.

Release 5.4.0

There are no new features in this release.

Release 5.3.0

There are no new features in this release.

Release 5.2.2

There are no new features in this release.

Release 5.2.1

There are no new features in this release.

Release 5.2.0

There are no new features in this release.

Release 5.1.4

No new features are added in this release.

Release 5.1.3

No new features are added in this release.

Release 5.1.2

No new features are added in this release.

Release 5.1.1

No new features are added in this release.

Release 5.1

One-Way SSL Authentication

Secure communication between the LDAP server and RMS server, and between the RMS server and its Decision Manager clients, is now supported with one-way SSL.

Release 5.0.1

No new features are included in this release.

Release 5.0

- Decision Tables now support the use of arrays, including nested concept arrays and properties in the columns.
- Use of datetime literals in decision table cells is now supported. You don't have to use catalog functions such as `DateTime.now()`, or `DateTime.parseString()`.
- Advisory events are now asserted for every inference agent for every class successfully loaded at runtime. Advisory events are also asserted for every class that failed to load, in cases where there is a failure on an agent while loading a class.

Changes in Functionality

This section lists changes in functionality since the last major (x.0.0) release of this product.

Release 5.4.1

There are no changes in functionality in this release.

Release 5.4.0

There are no changes in functionality in this release.

Release 5.3.0

There are no changes in functionality in this release.

Release 5.2.2

There are no changes in functionality in this release.

Release 5.2.1

There are no changes in functionality in this release.

Release 5.2.0

Documentation

The documentation of TIBCO BusinessEvents Decision Manager is no longer bundled with the installer. The documentation is available on <https://docs.tibco.com>.

To access the product documentation directly from the docsite, double-click the `TIB_businessevents-decisionmanager_5.2.0_docinfo.html` file.

Release 5.1.4

There are no changes in functionality in this release.

Release 5.1.3

There are no changes in functionality in this release.

Release 5.1.2

- Loss of "Execute at most one row" checkbox metadata when exporting or importing decision table has been fixed.

Release 5.1.1

Overwrite Option (-x) for generateClass and generateDTClass Commands

The overwrite option (-x) of generateClass and generateDTClass command now don't have true|false values. When the -x option is used, the generateClass and generateDTClass command overwrites the existing classes at the output location. When the -x option is not used, the generateClass and generateDTClass command prompts you for confirmation to overwrite, if the command finds existing classes at the output location.

Release 5.1

- Approvers now can approve or reject resources from the worklist available in TIBCO BusinessEvents WebStudio only. In Decision Manager resources can only be submitted for approval.
- RMS project directory structure is now changed and all the project resources are placed in the project root directory. RMS projects location as well as ACL file location is defined in a property in RMS.cdd file.

Release 5.0.1

There are no changes in functionality in this release.

Release 5.0

There are no changes in functionality in this release.

Deprecated and Removed Features

This section describes deprecated features (if any), and lists features, if relevant, that may be useful alternatives to the deprecated features. Any use of a deprecated feature should be discontinued as it may be removed in a future release. You should avoid becoming dependent on deprecated features and become familiar with the suggested alternative features.

This section also lists features that are removed (if any).

Deprecated Features

Release 5.4.1

No features are deprecated in this release.

Release 5.4.0

No features are deprecated in this release.

Release 5.3.0

No features are deprecated in this release.

Release 5.2.2

No features are deprecated in this release.

Release 5.2.1

No features are deprecated in this release.

Release 5.2.0

No features are deprecated in this release.

Release 5.1.4

No features are deprecated in this release.

Release 5.1.3

No features are deprecated in this release.

Release 5.1.2

No features are deprecated in this release.

Release 5.1.1

No features are deprecated in this release.

Release 5.1

No features are deprecated in this release.

Release 5.0.1

No features are deprecated in this release.

Release 5.0

No features are deprecated in this release.

Removed Features**Release 5.4.1**

No features are removed in this release.

Release 5.4.0

No features are removed in this release.

Release 5.3.0

No features are removed in this release.

Release 5.2.2

No features are removed in this release.

Release 5.2.1

No features are removed in this release.

Release 5.2.0

No features are removed in this release.

Release 5.1.4

No features are removed in this release.

Release 5.1.3

No features are removed in this release.

Release 5.1.2

No features are removed in this release.

Release 5.1.1

No features are removed in this release.

Release 5.1

No features are removed in this release.

Release 5.0.1

No features are removed in this release.

Release 5.0

No features are removed in this release.

Migration and Compatibility

This section explains how to migrate from a previous release to this release.

Release 5.4.1

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.4.0

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.3.0

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.2.2

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.2.1

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.2.0

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.1.4

See *TIBCO BusinessEvents Release Notes* for complete details. No special action is required for this add-on.

Release 5.1.3

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.1.2

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.1.1

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.1

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.0.1

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Release 5.0

See *TIBCO BusinessEvents Release Notes* for full details. No special action is required for this add-on.

Closed Issues

The table in this section list issues that were closed in the named releases.

Closed in Release	Key	Summary
5.3.0	BE-20680	In TIBCO BusinessEvents Decision Manager, the "Event Loop Exception : Stack Overflow" exception was encountered when two concept had reference to each other.
5.2.0	BE-20035	When entering a string field using semicolon in the Action Area of decision tables, an extra space was getting added after the semicolon.
5.2.0	BE-19082	When a single or multiple value was selected in the decision table condition column from the domain value, an error was thrown.
5.2.0	BE-18663	There was no option to overwrite or merge decision tables when importing a decision table from an excel with the same name.
5.2.0	BE-18431	When an Excel file was generated using the <code>convertCSV2Excel</code> command and imported into the decision table, the rows did not appear.
5.2.0	BE-18143	The documentation for <i>Advisory Event Type when external classes (Decision tables) deployment is performed</i> contained a typographical error.
5.2.0	BE-17793	Opening Table Analyzer for decision tables with a large number of rows sometimes threw an exception at the client side. Also, the analyzer failed when the decision table had more than 10000 rows.
5.2.0	BE-17623	Externalizing the rules in the decision tables was not supported.
5.2.0	BE-15149	In Decision Manager, you could create the class files for decision tables only. There was no option to create or update rules or RuleFunctions, and deploy the changes using RMS.
5.2.0	BE-14876	If the decision table contained effective date and expiration date, exporting the excel file did not show date properties in the imported decision table.
5.2.0	BE-10326	Refactoring decision tables broke links in the virtual rule function.

Closed in Release	Key	Summary
5.2.0	BE-9733	It was not possible to hot deploy decision tables without rebuilding the EAR file. This was needed especially when the business users changed the rules on a user-friendly interface, such as an excel sheet.
5.2.0	BE-8437	When using Table Analyzer to generate test data for a decision table, no test data was generated for contained or referenced concepts.
5.1.4	BE-21157	When updating the input values several times, Table Analyzer was selecting incorrect records. To get the correct results, users were needed to reopen the decision table.
5.1.4	BE-21154	Table Analyser was evaluating blank conditions incorrectly. The result should have been true but this was not the case.
5.1.2	BE-19426	<p>If a decision table contained effective date and expiration date, then after exporting the excel file did not shows those properties. Due to which, after importing the same excel file, the imported decision table did not contain the dates.</p> <p>DT export now also stores General Properties section (Effective/Expiry Dates, Single Rule execution, and so on) in the exported XLS file, and also imports back while importing it.</p>
5.1.2	BE-18953	<p>When exporting a decision table to a spreadsheet, the following exception was thrown if the fields in the decision table were associated to a domain model:</p> <pre>"Export to Excel failed due to: java.lang.IllegalArgumentException: Sheet index(2) is out of range (0..1)"</pre>
5.1.2	BE-18412	<p>When a decision table was imported, none of the rows were shown if the decision table was converted from a CSV file to Microsoft Excel using the studio-tools 'convertCSV2Excel' operation.</p> <p>If the CSV file has a column separator other than comma, specify the separator with the -s option as shown:</p> <pre>studio-tools -dt convertCSV2Excel [-h] -csvPath <CSV_File_Path> -excelPath <Excel_File_Path> -s <ColumnSeparator></pre>

Closed in Release	Key	Summary
5.1.2	BE-17932	<p>When you import an exported Excel to a decision table, if the decision table contained a Concept with String property set to Multiple, the following error was thrown when validating the decision table:</p> <p>"assignment target is immutable and cannot accept assignments".</p>
5.1.2	BE-17719	<p>In <i>TIBCO BusinessEvents Decision Manager User's Guide</i> > Table 13 TIBCO BusinessEvents Studio Tools for Generating One Table's Class Files, the option '-p' specifies the absolute path to the TIBCO BusinessEvents Studio (or WebStudio) project directory.</p>
5.1.2	BE-17703	<p><i>TIBCO BusinessEvents Decision Manager User's Guide</i> > Table 13 TIBCO BusinessEvents Studio Tools for Generating One Table's Class Files does not list the option <code>-e EAR_File_Path</code>. However, the command line help provides the information about the option '-e'. It specifies the path to the ear of the project to which the Decision Table belongs.</p>
5.1.2	BE-17524	<p>Agents are now suspended by default during decision table hot deployment.</p> <p>Set the property, <code>be.engine.cluster.hotdeploy.suspendAgent</code>, in the project CDD file to false if the agents should not be suspended during decision table hot deployment.</p> <p>If the property is not specified in the project CDD file, the default behavior of suspending the agents during decision table hot deployment is observed.</p>
5.1.1	BE-17607	<p>Decision tables had to be deployed inside an EAR file if the engine was running in In-Memory mode. As a result, the decision tables could not be updated dynamically. Any update to the decision table required the EAR file to be rebuild and then redeployed.</p> <p>The function <code>loadanddeploy()</code> now supports engines running in In-Memory mode too.</p>
5.1.1	BE-16804	<p>When exporting the decision table to Excel, the column values were not exported to the correct column.</p>
5.1.1	BE-16377	<p>After connecting to the RMS server remotely, performing the operations modify, commit, approve, and update repeatedly caused the UI to hang. The icons for the artifacts changed as well.</p>

Closed in Release	Key	Summary
5.1.1	BE-16124	Class files for a decision manager project could not be generated using studio-tools. The RMS server libraries are removed from the CLASSPATH in studio-tools.
5.1.1	BE-15561	Following a failure to build a project, the worklist status for the RMS project was not reverted to its earlier status.
5.1.1	BE-12620	Running Generate Deployable in RMS failed to generate classes if the project has projlibs dependency.
5.1.0	BE-16740	Studio throwing exception while saving workspace and there are indexing issues while saving decision table. Project needs cleanup after saving decision table to have effect.
5.1.0	BE-16599	An IllegalArgumentException exception was thrown when committing an artifact using RMS with persistence set to None.
5.1.0	BE-16349	Using RMS, commit operations did not reflect the changes made at the base location.
5.1.0	BE-15477	Classes are not generated for individual decision tables after performing Build post approve. However, RMS did not throw any error and incorrectly indicates that the classes are generated and artifacts submitted successfully.
5.1.0	BE-14983	An exception was thrown when using Decision Manager to checkout a RMS project that contained one or more Identity resources.
5.1.0	BE-14063	<p>The enable and disable details of a decision table cell were not exported to Microsoft Excel.</p> <p>NOTE: After installing the hotfix, when you import previously exported decision table, all cells in the table may be set to Disabled. Select the Cell Properties tab and set the cells to Enabled or Disabled as needed.</p>
5.1.0	BE-13584	TIBCO BusinessEvents Studio did not provide error handling or validation when importing decision tables.
5.1.0	BE-13485	When specifying values for a table cell, users could not select multiple values from the drop-down provided by the property's domain model.

Closed in Release	Key	Summary
5.1.0	BE-13465	Decision table conditions like the following: <code>!="A" && !="B" && !="U" && !="W" && !="X"</code> Would only test the first two sub-expressions (<code>!=A</code> and <code>!=B</code>).
5.1.0	BE-13136	The Generate Deployables menu option created the deployable files in a dynamically named folder. Now you can specify a static folder where the files are generated. To do so, edit the property <code>be.codegen.rootDirectory</code> in the CDD file and specify the folder where the deployable files are to be created.
5.1.0	BE-13070	When the design-time preference "Show domain descriptions if present" was set to true, the domain description was used at runtime instead of the actual domain value.
5.1.0	BE-13069	Validation errors were thrown when domain values for String type fields contained spaces. Now such values are automatically wrapped in double quotes.
5.1.0	BE-12938	An error was thrown if a <code>DateTime</code> property value in a decision table row was compared to null.
5.1.0	BE-12911	Silent installation of the Decision Manager and Data Modelling add-ons failed with a dependency check error.
5.1.0	BE-12545	Event payload XSD schema (.xsd) files were not imported into Decision Manager from the checked out RMS project.
5.1.0	BE-12544	The TIBCO BusinessEvents engine threw a <code>ParseException</code> error when both effective date and expiration date were set in a decision table.
5.1.0	BE-12306	It was not possible to start the Decision Manager UI on Linux.
5.1.0	BE-12285	In a Decision Table, using the null operator or <code>!= null</code> in a column of type <code>DateTime</code> resulted in an error.

Closed in Release	Key	Summary
5.1.0	BE-12150	<p>The JAR file containing the generated class files for decision tables also contained the other class files for the project. Now you can generate class files for individual decision table class files.</p> <p>As a prerequisite to using this feature, you must generate an EAR file, using RMS > Generate Deployable, so that an up-to-date EAR file is available in the RMS project folder. When this EAR file is in place you can generate class files as follows.</p> <p>After a decision table is checked into RMS, a reviewer approves it. In the same workitem, a new drop-down list option, BuildAndDeploy, is now available. When the user selects this option, a class file is generated, with the following structure:</p> <pre>be/gen/***/<DTName>.class</pre> <p>The class file is generated in the project subdirectory in the RMS shared directory. (This deployment directory can act as the external classes path, similar to 3.x behavior.) As desired you can also manually create the be.jar file containing the generated class files.</p> <p>Note that if a TIBCO BusinessEvents project change such as a new concept is checked in and approved, you must generate the EAR file again before generating a class file. If you do not, exceptions will occur.</p>
5.1.0	BE-12051	<p>In table analyzer, disabling of rows or cells in a table did not take effect until the table was closed and re-opened. Now it takes effect after the user clicks save.</p>
5.1.0	BE-11495	<p>Using RMS, if any artifact was deleted immediately after modification, and then the user did a commit, the deleted artifact was not shown in the commit dialog box.</p>

Closed in Release	Key	Summary
5.1.0	BE-11184	<p>Secure communication between the RMS server and its Decision Manager clients is now supported, with one-way SSL (as well as the existing non-secure mode). All operations exposed in non-secure mode are also exposed in secure mode. Setup is explained below.</p> <p>This procedure assumes the keystores are in place in the RMS server machine and in all client machines, as required for secure authentication.</p> <ol style="list-style-type: none"> On the RMS server machine, add the following properties to this file: <code><BE_HOME>rms/project/BRMS/Deployment/RMS.cdd</code> <p>To add the properties, import (and copy) the project into your workspace and edit this CDD file in TIBCO BusinessEvents Studio. Then manually copy the CDD file to its original location (as described in product documentation).</p> <ul style="list-style-type: none"> <code>tibco.clientVar.RMS/security/securePort</code>: The port to be used for secure HTTP communication. Default is 443. <code>tibco.clientVar.RMS/security/sslCertificateStore</code>: Absolute path of the JKS keystore which contains the RMS server's public/private keys. If the certificate used is CA signed, include the CA's certificate also. <code>tibco.clientVar.RMS/security/sslCertificateStorePassword</code>: Clear text password for the keystore above. On all client machines (where users will log into RMS using the TIBCO BusinessEvents Studio menu option), add the following properties to the this file: <code><BE_HOME>/studio/eclipse/configuration/studio.tra</code> file <ul style="list-style-type: none"> <code>javax.net.ssl.trustStore</code>: Set the value to the absolute path of the keystore containing the RMS server certificate chain. <code>javax.net.ssl.trustStorePassword</code>: Set the value to the password for the above keystore. <code>javax.net.ssl.trustStoreType</code>: Set the value to the keystore type for keystores other than JKS type. <p>After setup is done, use the following URL pattern to log into RMS using secure mode:</p> <p><code>https://<host>:<securePort>/Transports/Channels/AMS_CH_ArtifactSecureCommunicationHTTPChannel/</code></p>

Closed in Release	Key	Summary
5.1.0	BE-11102	Using Decision Manager, it was not possible to uncheck a project with Views.
5.1.0	BE-11078	The decision tree was not displayed properly when the decision table model was corrupted.
5.1.0	BE-11071	Actual value should be stored in decision table instead of description when decision table preference set to Show domain description if present .
5.1.0	BE-10996	When a user checked out a project from RMS, and clicked Update immediately after that, then that project in RMS showed modified, even though it was not modified.
5.1.0	BE-4839	Commit of Decision Manager project failed when having umlauts like ä,ü in the commit or approve description.
5.0.1	BE-14285	<p>Table Analyzer warnings display using two lines. However, only one line was visible in the Problems tab in TIBCO BusinessEvents Studio. For example, in the following case, the second line would not have been visible:</p> <pre>Range (> 5) in column 'col1' overlaps with the following 1 ranges: (> 5)</pre> <p>Note: in 5.0.0 HF3, this item was incompletely fixed. It was reproducible on Win7 64 bit installation. However in 5.0.1 the issue is fixed on all platforms.</p>
5.0.1	BE-14233	If you created a decision table in a different folder from its VRF folder, Analyzer reported that the VRF did not have an implementation.
5.0.0	BE-12014	Sometimes a null pointer exception occurred when users checked out corrupted decision tables from RMS. The RMS > Generate Deployable > Generate Classes Only option in RMS was also disabled as a result.
5.0.0	BE-11474	Domain models were not included in decision table exports.
5.0.0	BE-11472	If a table was renamed, the rename was executed on all tables in the project, by default.
5.0.0	BE-11402	When exporting a decision table, nested concepts were not included. Now they are.

Closed in Release	Key	Summary
5.0.0	BE-10127	It was not possible to drag and drop properties into the condition area of a decision table if the project contained cyclic referenced concepts.
5.0.0	BE-4351	There was no command-line tool for generating decision table class files. Now a <code>generateClass</code> operation has been added to the <code>studio-tools</code> utility. It generates all class files in a project.
5.0.0	BE-3051	The value list for a domain was not available when users were defining test data.

Known Issues

The table in this section lists the known issues in this release.

Key	Summary/Workaround
BE-16780	Summary Concept and rule can be renamed using the File > Rename menu option. Workaround None.
BE-16659	Summary An exception is thrown on the RMS server when trying to open a worklist after a commit is performed. Workaround None.
BE-16409	Summary The drag and drop feature does not work to add arguments to the decision table in Red Hat Linux 6. Workaround None.
1-ABRC8D	Summary In a decision table, if you update a row after using the Merge Row feature, and then clicks the Merge Row button again, all rows are unmerged and the rows are not updated correctly. Workaround None.
1-90P6G6	Summary In a decision table, you cannot specify actions only, without specifying at least one condition. Workaround Specify one custom condition and leave it blank if you want to have only actions in your decision table.