

IBM WebSphere Multichannel Bank Transformation Toolkit
Version 8.0.1

Release notes



Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 7.

This edition applies to Version 8, Release 0, Modification 0, of *IBM WebSphere Multichannel Bank Transformation Toolkit* (5724-H82) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

WebSphere Multichannel Bank Transformation Toolkit 8.0.1 release notes	1	Hardware and software requirements	2
New in this release	1	Limitations, known issues, and workarounds	2
Product fix history	1	Notices	7
		Trademarks	9

WebSphere Multichannel Bank Transformation Toolkit 8.0.1 release notes

This document contains information about version 8.0.1 of IBM® WebSphere® Multichannel Bank Transformation Toolkit. It describes the new components and functions at an architectural level.

New in this release

This topic describes the new features and enhancements that are provided with IBM WebSphere Multichannel Bank Transformation Toolkit.

WebSphere Multichannel Bank Transformation Toolkit version 8.0.1 provides the following new features and enhancements:

- Embeds WAS to provide the infrastructure to run the multichannel applications
- Embeds Unica Campaign V8.5, Unica InteractV8.5 to provides the real-time marketing
- One stop integrated tools for develop multichannel applications
- Provide mobile support for smart phone mobile banking
- Improved run-time framework and tooling
 - Support server controlled client interaction such as pop-up dialogs
 - Enhance UI cross validation and tooling support
 - Support customized cell editor inside Grid widget
 - Multiple project structure support
 - BTT artifacts search
 - Expression data mapping for list
- Solution templates for Internet banking, mobile banking, online insurance to show the leading practices of BTT application implementation, and accelerates solution building

Product fix history

This section lists the closed APARs before WebSphere Multichannel Bank Transformation Toolkit version 7.1.

Table 1. List of close APARs against version 7.1.

APAR	Description
JR40025	Alpha: Naming convension extension
JR40092	Extension widgets preview support
JR40128	Tooling limitation for multiproject includes
JR40190	session not found when returning from remote subflow
JR40185	Deleting or renaming a BTT problem
JR40192	Enhancement of NLS editor dialog
JR40193	Enhancement of state display in flow editor
JR40197	Error in referring NLS or file in global project

Table 1. List of close APARs against version 7.1. (continued)

APAR	Description
JR40217	Transaction Dashboard View
JR40316	Custom types are not supported in op generation
JR40342	error in dojo btt library
JR40353	DojoTableTag not support null data
JR40835	Exception when navigate operation
JR40836	NullPointerException is thrown in a modal window
JR40837	XUI Generation Wizard fails to load Operation Context
JR40884	Failed to generate view from SDO
JR40885	Generated wrong url from wsdl
JR40887	Error when define refData of kColl
JR40834	Global function throw exception
JR40920	kColl prefix was not shown in condition state
JR40921	Incorrect validation error
JR40905	css file selection
JR41359	LabelFromList do not work in table widget
JR40832	Append attribute in mapping
JR40930	Can not handle upcase character in style
JR41035	RefData selector has limitation in MP
JR41039	Can not refer type defined in global project
JR40889	Double click Submit button problem
JR41081	showErrorMessage does not support NLS
JR41122	Preview limitation
JR41134	transaction file size so big when do map operator
JR41345	black dot appears at side of check box in FF if text is empty

Hardware and software requirements

For details on the hardware and software requirements of IBM WebSphere Multichannel Bank Transformation Toolkit, refer to the Hardware and software requirements topic in the IBM WebSphere Multichannel Bank Transformation Toolkit Installation Guide.

Limitations, known issues, and workarounds

This section lists the limitations and known issues of this release. It also provides information about any fixes or workarounds that exist for resolving these limitations and issues.

Runtime

- Currency symbol is not validated in CurrencyValidator.
- Currency symbol cannot be displayed when bean data element is used as a data module.
- Type initialize does not report accurate exception messages.

- There are multiple validations for an input value and the valid sequence is weird. This is caused by DOJO mechanism.
- If a value for the height property of a table is not specified, a user cannot edit the table in Internet Explorer 8.
- When defining data mappings, validation exceptions occur during mapping. This is caused by the absence of a validation mechanism when the `context.setValuteAt()` is called.
- AJAX invocation can be launched only by a form.
- A direct pagination table does not support the “go to a specific page” function.
- Select widget doesn't support duplicate background value due to filter function.
- Table widget can not support pagination and editable together
- Textbox widget validation sequence may meet some problem
- In Type.xml, the default type name is like ByteNumber, ShortNumber, FloatNumber, it should be identical in webservice tooling parse mechanism, otherwise, it can't match the data type.
- DataMapperExpressionConverterFormat does not support map elements in multiple level list at the same time.
- Processor does not add dataElement into an icoll dynamically if the icoll is defined as type.
- End user needs to lost focus when submit editable table in IE
- Fileupload widget doesn't support multiple files upload.
- Because of the significant figures limitation on programming languages in practice, if the significant figures of a number are bigger than 16 in decimal mode (or 52 in binary mode), the number may lose its precision, which would cause some calculation issues.
The problem may be introduced by IEEE 754 standard and ECMA 262 standard.
For more information about significant figures, please refer to http://en.wikipedia.org/wiki/Significant_figures.
Due to above statement, we have the following recommendations for applications based on BTT :
 1. Do not rely on client side data validation. The application should add integrity check on all numbers input from client side instead. All the numbers calculation should happen at the server side instead of the client browser side, especially for serious banking operations.
 2. Use more precise data type if possible, like double, or some special classes, like Decimal/BigDecimal to deal with numbers in the application wherever possible.
 3. In the case you have to collect numbers from the client side, like browsers, please limit the significant figures to be less than 16 in decimal mode whenever it may affect your business data integrity.
- In IE browser, table can not be focused if it is set invisible.
- The text box can only support 4-digit year.
- The JSP encoding must be set to UTF-8, otherwise the page cannot be displayed or display with wrong content. So please use the latest generation template of BTT version 8.0.1 and then regenerate JSP. If project already contains a customized generation template, then please update the template to replace all `${encoding}` to UTF-8.
- Nested form is not supported at runtime. When creating nested form in XUI editor, there will be a validation error warning.

Tooling

- The XUI editor does not support Linux operating systems.
- A .transaction file cannot be imported from a .xml file.
- A .xui file cannot be imported from a JSP file.
- XUI and transaction template files cannot be saved in a plug-in folder, which is not efficient for sharing.
- Classes with inheritance relationship -- This Web services tooling could partly support the generation of classes and WebSphere® Multichannel Bank Transformation Toolkit resources if there is inheritance relationship in WS types definition. In the latest version, the tooling works correctly if all the classes in the inheritance structure are insatiable. The tooling has not been designed to work for the classes which are abstract classes or interfaces.
- Multiple embedded collection type -- This Web services tooling could partly support the generation of classes and WebSphere Multichannel Bank Transformation Toolkit resources if there is complex classes composition relationship in WS types definition. But there is an exception if there are more than one collection in the composition relationship. For example, if 'List A' contains 'Bean B', and then 'Bean B' has a field whose type is 'List C', the formatter will be generated into structure as '.*.*'. And it is not supported by both Web services runtime and tooling.
- Camel case names -- The names of Java resources such as classes, packages and fields will be converted into camel case style after the stub class generation. It is the behavior from XJC tool which is used by JAXB implementation. But in our Web services tooling, the camel case conversion imported by wsimport (JDK tool) would cause problems. The conversion result sometimes is different from JavaBean standard. And this defect will cause a problem during the data mapping.
For example, there is a string named "A_B_C" in wsdl file. JDK would automatically generate a getter/setter method named getABC() and setABC(String). But in JavaBean standard, the method would be getAbc() and setAbc(String). And BTT Web services Mapper would try to find the getter/setter method in JavaBean standard, which would of course be failed.
Due to above statement, we recommend a workaround with the following steps:
 1. Remove the default getter and setter method.
 2. Generate a new getter and setter method with the support of Eclipse or RAD.
- Enumeration and annotation -- Some features such as enumeration and annotation are not supported now in latest version. It means users can not define enumeration and annotation in WSDL types.
- In the WebSphere Multichannel Bank Transformation Toolkit Transaction Editor- operation, create a new operation definition; there will be a generated implClass. But when moving the operation class to another package, there's a popup message box ask: Update reference to "operation.java", check this option, but you will find there's no change in implclass for operation definition in transaction editor.
- When refer an element which is from an imported definition file, the detail sub fields of the referenced element can not be navigated in editor.
- In BTT Transaction Editor- operation, create a new operation definition, there will be a generated implClass. But when move the operation class to another package, there's a popup message box ask: Update reference to "operation.java", check this option, but you will find there's no change in implclass for operation definition in transction editor.

- Property view can not be auto focused once a tooling element is clicked in eclipse environment.
- XUI filename cannot start with numbers. For example, 31411Test.xui is not supported, otherwise the ECA rule will not work. This is because BTT uses XUI filename as a variable in generated ECA JS file, and according to JavaScript naming convention, variable cannot start with numbers.

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