

IBM Branch Transformation Toolkit
for WebSphere Studio



Readme

Version 4.3.1.1

Note!

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 13.

First Edition (March 2005)

This edition applies to Version 4, Release 3, Modification 1, Fix Pack 1, of *IBM Branch Transformation Toolkit for WebSphere Studio* (5648-D89) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Introduction

This document contains detailed information about version 4.3.1.1 of IBM® Branch Transformation Toolkit for WebSphere® Studio (Branch Transformation Toolkit), fix pack of Branch Transformation Toolkit version 4.3.1.

About this fix pack

Apart from the cumulative fixes it contains, this fix pack differs from the previous version of Branch Transformation Toolkit from the following aspects:

Double size support in float conversion

To avoid the truncation problem of Float value, objects used in float converter are changed from Float type to Double type. This change impacts the following visual bean classes that the toolkit provides:

- com.ibm.dse.gui.SpLabel
- com.ibm.dse.gui.SpTable
- com.ibm.dse.gui.SpTextField

If your application used to get value from any of the classes listed above to Float objects, you now need to get the value to Double objects instead of Float objects.

Support for more operating systems and software products

In addition to the platforms and associated software the Branch Transformation Toolkit Version 4.3.1 supports, this fix pack has been proven to support the following operating systems and software products.

Operating systems

- Microsoft® Windows® 2003 for runtime environment
- IBM AIX® 5.3 for runtime environment
- Red Hat Enterprise Linux® ES/WS 3.0 Update 1 or 3 for runtime environment
- Red Hat 8.0 for development and runtime environment

Software products

- WebSphere Application Server version 5.1.2
- IBM DB2 Universal Database™ version 8.2
- IBM Directory Server version 5.2
- WebSphere Studio Application Developer version 5.1.2
- WebSphere Studio Enterprise Developer version 5.1.2

List of closed APARs

The following is a list of APARs that were opened against V4.3.1 and included in this version:

Table 1. Closed APARs against V4.3.1

APAR	Description
IY47523	Error messages on dse.log.
IY48942	HTMLProcessor Cross Validation not setting errorinfo consistently.
IY49660	JSP Tags package classes and DSEjspContextServices.class do not create well formed (X)HTML.
IY50069	PROBLEM IN BTT IN THE IN JDBC_TABLE CLAS. THE QUERY SHOULD BE CHANGED TO SELECT * FROM <TABLE> WHERE 1 = 0.
IY50510	Subject inconsistency in data element tags.
IY50770	problem found in the JDBCTable service when working in the specified environment
IY51448	Coding error in NumericStringConverter class
IY52304	Optional Parameters on Transition & HtmlTransition Entity documented but not implemented.
IY52734	RLMHeap leak
IY53197	Clean processors before inserting into cache
IY53307	btt on aix 4.3.3/ /entries are not complete
IY53416	Using GenericPoolToUse attribute on MQListener service cause an exception when releasing the Pool entry.
IY53663	When we clone a com.ibm.dse.base.Hashtable() object that it's key or value include Boolean object, It can't clone this object correctly
IY54177	J2CA0086W is thrown when 3 JournalServer + 1 JDBCTable share a sharedconnection
IY54178	Journal service does not read the attribute databaseURL="" in the service definition.
IY54179	If the attributes user and password are not set in the JDBCTable service and autoconnect="true", then a NullPointerException is thrown.
IY54180	In the case of concurrent accesses, the method existsSchema(String aSchemaName) of JDBCJournalSchemaGenerator has a problem.
IY56010	Error message in dse.log after IY47445
IY56730	the Current Pool Size exceeds the max Pool Size setting of MQPool
IY56762	null value in HtmlConstants.ERRORMESSAGES. Under normal situation
IY57209	JDBCTable executeSQLQuery() method does not support selfdefined processors

Table 1. Closed APARs against V4.3.1 (continued)

APAR	Description
IY61130	When calling processException in HtmlPresentationHandler, the handler tried to forward the request to error page. But for some cases, the request had already forwarded to result page.
IY62521	LU62 session dropped after transaction timeout
IY62552	MQ err 2018 after applied IY56730
IY63129	loop in getFromGetReplyQueue() of MQConnection
IY65941	Repository Workspace Format Order Problem
JR18769	err handling in chain 2 method
JR18835	LU0 communications & CBTF
JR18835	Some dataFields can not be cloned.
JR18983	Issue with wosa dll for WOSA/XFS IDC implementation
JR19086	HTMLProcessor Cross Validation not setting errorinfo consitently.
JR19096	sub flows not working with session persistance
JR19176	memory leak with dse notifiers
JR19231	A looping testing of stopping and starting was being running. When the java.lang.NumberFormatException happened this LU remains out of service since the session can not be restored.
JR19345	bug in data mapper convertor
JR19459	Unnecessary use of storage in compound Typed Data Elements
JR19460	mount of memory cycled by formatting typed data
JR19461	Avoid Creation of DSEObjectNotFoundExceptions
JR19462	reduced object cycling in keyed collection
JR19463	amount of memory to hold a xamel defamission
JR19469	java.lang.NullPointerException in the method isHalfDuplexFlipFlop of the Lu0Bind.java class.
JR19504	exces object cycling in keyed collection get order
JR19506	Lazy creation of dselementstate intyped data
JR19525	number format exceptions in keyedcollection
JR19526	"Short Description Avoid ArrayIndexOutOfBoundsException in IndexedCollection Incident description In IndexedCollection."
JR19560	Trace Bug causes system to hang
JR19627	use stringreaders when processing strings
JR19633	Do not load comments from XML and do not throw ArrayIndexOutOfBoundsException when loading XML.
JR19650	REMOVE SYSTEM.GC() CALLS
JR19684	Syntax such as "&@I7" (and others) are not supported due to a bug in TagAttribute.convert(String).
JR19685	spareCapacity attribute causes a NumberFormatException

Table 1. Closed APARs against V4.3.1 (continued)

APAR	Description
JR19708	When open the operation cache, and using the EventManagerClientOperation to call EventManagerServerOperation, DSERequestHandler will try to put the EventManagerServerOperation into the operation cache, it will throw NullPointerException. But it will not influent the following execution.
JR19723	Incorrect Tag object is returned after writing a Tag object to a ObjectOutput and then reading the this Tag object from ObjectInput.
JR19725	BaseSample(Java™ Client) have not dsehcon.jar in BaseSample's classpath.
JR19737	CommunicationsPool+ArrayIndexOutOfBounds
JR19744	SpTable behaviour setting table row using SetDataValue
JR19793	CHcontext externaliser & data externaliser err info
JR19801	the <param> tag doesn't work when the definition of the processor context is in the self defined processor xml file
JR19838	Cleaning of invalid session cookies
JR19853	When using the jar dsemqsvc.jar from IY51448, occur MQException
JR19899	using DSESyncProcState.class, it always creates a new processor and puts it into cache (activate() and readSyncProcessor()methods)
JR19937	HSBC reported another problem in the clone() method of the Hashtable class. The previous fix was for the 'Boolean' object for the key and value of Hashtable. Now they want to include the Character object type.
JR19960	BTT fails due to lack of file name case validation
JR20024(JR20024f_1)	getMessageFromLocale causes NullPointerException
JR20036	CBTF errors in LU6.2 comms CM SECURITY NOT VALID
JR20057	This PMR is the same as PMR 66981. Opening it is for getting an APAR number and checking code for it. The reason is that before checking in code, PMR 66981 has been closed by mistake.
JR20101	Long running processors with freq. state changed
JR20106	deadlock/timeout exceptions thrown from BTT
JR20163	Memory leak caused by the processor registry
JR20304	fail to refer keyedCollection after APAR JR19801
JR20318	apar JR19700 fix does not work
JR20358	Memory leak
JR20428	Transfer to BTT - JDE Nullpointer exception
JR20470	enter an amount with decimal places, sometimes the amount is stored in the context with mulitple decimal places
JR20516	Connections in BTT 4.3
JR20645	Error in how the creation of a IndexedCollection now occurs when a server operation is called.
JR20739	exception occurs in SpTable + cell values get copie

Table 1. Closed APARs against V4.3.1 (continued)

APAR	Description
JR20916	OutofBounds error in SpTable
JR20947	SpTable throws class cast exception on enter
JR20950	SPTABLE changes column alignment
PQ76895	COMPOSER BUGS WEBSHERE Memory leak in MenuButton.
PQ77795	AL COMPOSER BUGS WEBSHERE Bug in RequestValidationServices
PQ90349	After migrating from WAS 4.0.1 to WAS 5.0.2, we cannot execute any transaction because we cannot get into APPC from connector LU6.2 incorporated in BTT 4.3.1.
JR20984	The Scenario Area does not place the focus on the 1st task button of the Scenario.
JR21120	Dynamic create keyedcollection in indexcollection error
JR21135	BTT Patch - encountered error in CSClient

The following is a list of APARs that were opened against V4.2 or predecessor and included in this version:

Table 2. Closed APARs against V4.2 or predecessor and included in this version

APAR	APAR in V4.2	Description
IY47523	IY47445	Error messages on dse.log.
IY50069	IY50201	PROBLEM IN BTT IN THE IN JDBC_TABLE CLAS. THE QUERY SHOULD BE CHANGED TO SELECT * FROM <TABLE> WHERE 1 = 0.
IY50510	IY51786	Subject inconsistency in data element tags.
IY50770	IY51240	problem found in the JDBCTable service when working in the specified environment
IY51448	IY52491	Coding error in NumericStringConverter class
IY52304	IY52389	Optional Parameters on Transition & HtmlTransition Entity documented but not implemented.
IY53197	IY50787	Clean processors before inserting into cache
IY53416	IY54169	Using GenericPoolToUse attribute on MQListener service cause an exception when releasing the Pool entry.
IY53663	IY54128	When we clone a com.ibm.dse.base.Hashtable() object that it's key or value include Boolean object, It can't clone this object correctly
IY54177	IY54599	J2CA0086W is thrown when 3 JournalServer + 1 JDBCTable share a sharedconnection
IY54178	IY54600	Journal service does not read the attribute databaseURL="" in the service definition.
IY54179	IY54601	If the attributes user and password are not set in the JDBCTable service and autoconnect="true", then a NullPointerException is thrown.
IY54180	IY54602	In the case of concurrent accesses, the method existsSchema(String aSchemaName) of JDBCJournalSchemaGenerator has a problem.

Table 2. Closed APARs against V4.2 or predecessor and included in this version (continued)

APAR	APAR in V4.2	Description
IY63129	IY63998	loop in getFromGetReplyQueue() of MQConnection
JR18769	JR18758	err handling in chain 2 method
JR18983	JR18962	Issue with wosa dll for WOSA/XFS IDC implementation
JR19086	JR19085	HTMLProcessor Cross Validation not setting errorinfo consistently.
JR19096	JR18600	sub flows not working with session persistence
JR19176	JR19178	memory leak with dse notifiers
JR19345	JR19257	bug in data mapper convertor
JR19459	JR19398	Unnecessary use of storage in compound Typed Data Elements
JR19460	JR19399	mount of memory cycled by formatting typed data
JR19461	JR19400	Avoid Creation of DSEObjectNotFoundExceptions
JR19462	JR19401	reduced object cycling in keyed collection
JR19463	JR19402	amount of memory to hold a xamel defamission
JR19504	JR19479	exces object cycling in keyed collection get order
JR19525	JR19619	number format exceptions in keyedcollection
JR19526	JR19620	"Short Description Avoid ArrayIndexOutOfBoundsException in IndexedCollection Incident description In IndexedCollection."
JR19560	JR19493	Trace Bug causes system to hang
JR19627	JR19651	use stringreaders when processing strings
JR19633	JR19636	Do not load comments from XML and do not throw ArrayIndexOutOfBoundsException when loading XML.
JR19650	JR19666	REMOVE SYSTEM.GC() CALLS
JR19684	JR19718	Syntax such as "&@l7" (and others) are not supported due to a bug in TagAttribute.convert(String).
JR19685	JR19719	spareCapacity attribute causes a NumberFormatException
JR19708	JR19745	When open the operation cache, and using the EventManagerClientOperation to call EventManagerServerOperation, DSERequestHandler will try to put the EventManagerServerOperation into the operation cache, it will throw NullPointerException. But it will not influent the following execution.
JR19723	IY19746	Incorrect Tag object is returned after writing a Tag object to a ObjectOutput and then reading the this Tag object from ObjectInput.
JR19725	JR19824	BaseSample(Java Client) have not dsehcon.jar in BaseSample's classpath.
JR19737	JR19697	CommunicationsPool+ArrayIndexOutOfBoundsException
JR19744	JR19667	SpTable behaviour setting table row using SetDataValue
JR19793	JR19805	CHcontext externaliser & data externaliser err info
JR19801	JR19804	the <param> tag doesn't work when the definition of the processor context is in the self defined processor xml file

Table 2. Closed APARs against V4.2 or predecessor and included in this version (continued)

APAR	APAR in V4.2	Description
JR20163	JR20055	Memory leak caused by the processor registry

Limitations and known issues

The following issue has been identified when you use the Development Workbench provided in this fix pack on WebSphere Studio Application Developer 5.1.2 for Linux.

- When you export a data type definition (DTD) file from your workspace, no file will be exported.

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