



BEA

WebLogic Server

Release Notes for
WebLogic Tuxedo Connector 1.0

BEA WebLogic Tuxedo Connector Release 1.0
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WebLogic Tuxedo Conector Release Notes

Part Number	Document Date	Software Version
N/A	June 29, 2001	BEA WebLogic Tuxedo Connector 1.0

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1 WebLogic Tuxedo Connector 1.0 Release Notes

Welcome to the BEA WebLogic Tuxedo Connector Release 1.0. The WebLogic Tuxedo Connector provides the ability to interoperate between WebLogic Server and Tuxedo environments.

The following sections describe the product features, supported specifications, and known problems:

- [Features](#)
- [Supported Platforms](#)
- [Licensing](#)
- [Where to Get Product Documentation](#)
- [Contacting BEA Customer Support](#)
- [Known Limitations](#)

Features

The WebLogic Tuxedo Connector provides developers and administrators the following features:

- Simple implementation. The WebLogic Tuxedo Connector does not require modification of existing Tuxedo application code.
 - Existing Tuxedo clients call WebLogic Server EJBs through the WebLogic Tuxedo Connector
 - New or modified WebLogic Server clients call Tuxedo services through WebLogic Tuxedo Connector.
- Transaction support if the transaction originates on the WebLogic Server.
- Security
- Interoperability with mainframes and other legacy applications using eLink

Supported Platforms

See our [Supported Configurations](http://e-docs.bea.com/wls/certifications/certifications/index.html) page at <http://e-docs.bea.com/wls/certifications/certifications/index.html> for the most accurate and current information regarding platform support.

Operating Systems

The following operating systems are supported for this release:

- HP-UX 11.0
- Solaris 8
- Solaris 7
- Windows NT SP5 and above
- Windows 2000

Software platforms

The WebLogic Tuxedo Connector supports the following platforms:

- WebLogic Server 6.0 SP2
- Tuxedo 8.0
- Tuxedo 6.5
- eLink 1.2
- WebLogic Process Integrator, Release 2.0

Licensing

This section provides licensing information for the WebLogic Tuxedo Connector:

- There is no license requirement for using the connector without encryption.
- An appropriate Tuxedo LLE license and an appropriate WebLogic Server SSL license is required to use encryption.

Where to Get Product Documentation

Documentation for the WebLogic Tuxedo Connector is available from the following locations:

- On the BEA corporate Web Site. From the BEA Home page at <http://www.bea.com>, click on Product Documentation. Select the BEA Tuxedo 8.0 documentation set.
- Go directly to the WebLogic Tuxedo Connector “e-docs” product documentation page at <http://e-docs.bea.com/wtc/wct10/index.html>

To access the PDFs, open the WebLogic Tuxedo Connector Home page, click Download Documentation and select the document you want to view or print. If you do not have Adobe Acrobat Reader, you can get it for free from the Adobe Web site at <http://www.adobe.com>.

WebLogic Tuxedo Connector Library

The WebLogic Tuxedo Connector library consists of the following documentation:

- *WebLogic Tuxedo Connector Administration Guide*: Provides information on how to install, administer, and use the WebLogic Tuxedo Connector.
- *WebLogic Tuxedo Connector ATMI Programmer's Guide*: Provides information on how to develop and deploy applications for the WebLogic Tuxedo Connector.

Example Applications

Documented example applications are provided in the software distribution. From your browser, open the `examples.html` file located in the `examples` directory of your installed WebLogic Tuxedo Connector software.

Contacting BEA Customer Support

Your feedback on BEA WebLogic Tuxedo Connector Release 1.0 is important to us. Send us e-mail at docsupport@bea.com if you have questions or comments. Your comments will be reviewed directly by the BEA professionals who create and update the documentation.

In your e-mail message, please indicate the software name and version you are using, as well as the title and document date of your documentation. If you have any questions about this version of BEA WebLogic Server, or if you have problems installing and running BEA WebLogic Server, contact BEA Customer Support through BEA WebSupport at <http://www.bea.com>.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

Known Limitations

This section describes limitations and known problems in the current BEA WebLogic Tuxedo Connector release and includes possible workarounds, where applicable.

Limitations

WebLogic Tuxedo Connector Release 1.0 has the following limitations:

- Does not support dynamic configuration changes to the WebLogic Tuxedo Connector gateway
- Does not support in-bound transactions (a transaction originating in Tuxedo)
- Does not support Conversations
- Does not support Views
- Does not support double-byte character sets or international character sets. These features are dependent on future releases of Tuxedo.

Known Problems

The table below lists a CR (Change Request) number for each problem. Refer to this number to conveniently track the solution as the problems are resolved.

Please contact your BEA Technical Support for assistance in tracking any unresolved problems. For contact information, see the section [“Contacting BEA Customer Support”](#).

1	CR047450	LIBTUX_CAT:1397 WARN message gets logged continuously
	Problem	When the tbridge is configured with redirect from JmsQ2TuxQ, JmsQ2TuxS and TuxQ2Jms, the following warning message is logged: 134025.lcsol14!TMQUEUE.11799: LIBTUX_CAT:1397: WARN: tpreturn transaction processing failure Occurs when a transaction in WebLogic Tuxedo Connector times-out. The transaction that the tpreturn belongs to has been lost before the work in TMQUEUE has finished.
	Platform	Tuxedo 6.5
	Workaround	Set the timeout parameter in the WebLogic Tuxedo Connector XML configuration file to a large value.
2	CR047458	WebLogic Tuxedo Connector installer doesn't install files in Win2k and just waits
	Problem	User selects the Install button and the Installer hangs. If the user selects Next , the Installer proceeds to Finish without installing the software.
	Platform	Windows 2000
	Workaround	Make sure JDK1.3 is in the PATH.
3	CR050519	Sending ByteMessage to Tux 6.5 service disconnects domain
	Problem	If a client sends a ByteMessage to JMSQueue, the tbridge puts the tpcall reply (CARRAY) into JMS ReplyQ and gets the FML32 buffer enqueued by the service into JMS ReplyQ. The tbridge gets the FML32 buffer from the Queue but not the tpreturn reply and the domain gets disconnected.
	Platform	Tuxedo 6.5
	Workaround	Open Issue

4	CR050290	Tuxedo 6.5 with tBridge using TuxQ2JmsQ blocks /Q activity
Problem	When the tBridge is configured to pipe messages from /Q to JMS (TuxQ2JmsQ), the /Q is blocked from activity in the context of a transaction causing possible delays in message traffic and duplicates.	
Platform	Tuxedo 6.5	
Workaround	When running the tBridge with a Tux 6.5 domain and using a configuration that pipes /Q messages to JMS, at least two TMQUEUE processes are recommended for each queue space.	
5	CR055170	Multiple Fchg Corrupts FML Buffer
Problem	Using Fchg to any FML table field multiple times corrupts the FML buffer and the call fails with TPPEVENT exception. Using the following statements will result in an TPPEVENT exception:	
	<pre>fmlbuff.Fchg(mykey,casenum); fmlbuff.Fchg(mykey,casenum); convDesc = wh.tpconnect("CONVSVC",fmlbuff,flag);</pre>	
Workaround	Use Fdel after first Fchg on same key, as follows:	
	<pre>fmlbuff.Fchg(mykey,casenum); fmlbuff.Fdel(mykey); fmlbuff.Fchg(mykey,casenum); convDesc = wh.tpconnect("CONVSVC",fmlbuff,flag);</pre>	
6	CR078774	tBridge session connection becomes non responsive
Problem	The processing of messages by the tBridge with a connection that pulls messages from Tuxedo /Q will stop pulling messages after some time.	
Workaround	Open Issue. This issue has been fixed in WLS 7.0 SP1.	
7	CR079630	tBridge doesn't return correct Correlation ID

Problem Most users will expect to set the Correlation ID using the `setJMSCorrelationID(String)` method. This will take a 32 character string and turn it into a 64 byte array. JMS stores the string as UTF-16BE.

When the tBridge receives the correlation id from Tuxedo it is 32 characters as 32 bytes. The tBridge then uses the `setJMSCorrelationIDAsBytes(byte[])` method to set the message for JMS receiving queue.

The characters may be the same in ASCII but the two will not compare due the length difference.

Workaround When it is necessary to compare the Correlation ID with the ID returned from Tuxedo in the receiving JMS queue, create a byte array containing the hexadecimal values of the Correlation ID. Then use the `setJMSCorrelationIDAsBytes()` and `getJMSCorrelationIDAsBytes()` methods to create an ID to compare with the ID returned from Tuxedo in the receiving JMS queue.

For example, if the string Correlation ID is
"1234567890ABCDEFGHIJKLMNQRSTU":

```
private byte[] coridbyte={0x31,0x32,0x33,0x34,0x35,0x36,0x37,
                          0x38,0x39,0x30,0x41,0x42,0x43,0x44,
                          0x45,0x46,0x47,0x48,0x49,0x4a,0x4b,
                          0x4c,0x4d,0x4e,0x4f,0x50,0x51,0x52,
                          0x53,0x54,0x55,0x56};
msg.setJMSCorrelationIDAsBytes(coridbyte);
corIDasBytes = msg.getJMSCorrelationIDAsBytes();
```

`corIDasBytes` contains the correct value to compare with the Correlation ID returned from Tuxedo.

2 Quick Start Guide

This section tells you how to install and configure the WebLogic Tuxedo Connector Release 1.0. For more detailed information, see the *WebLogic Tuxedo Connector Administration Guide*.

Download the WebLogic Tuxedo Connector

This section provides information on how to install the distribution.

1. Download the WebLogic Tuxedo Connector Release 1.0 distribution from the BEA Download Center, located at <http://www.beasys.com/download.shtml>. The WebLogic Tuxedo Connector is available from the Tuxedo 8.0 download page.
2. Run the Installation program.

Setting up the WebLogic Tuxedo Connector

This section provides an example on how to configure the WebLogic Tuxedo Connector for the default server on an NT platform.

Note: Unix users: make appropriate substitutions such as replacing the ‘\’ with ‘/’

1. Create a WebLogic Tuxedo Connector configuration file. Save the file in the `.\config\mydomain` directory. A simple method to create this file is to copy a configuration file from one of the examples included in the distribution and edit it for your environment.

- Copy `.\examples\simpapp\bdmconfig.xml` to `.\config\mydomain\your_configuration_file.xml`.
- Update the DOCTYPE to reflect the fully qualified path of the `wtc_config_1_0.dtd`.
- Make the necessary changes to match your application environments, including updating the NWAddr.

Note: Tuxedo 6.5 users add an Interoperate element and set the element to **Yes**.

2. Save `your_configuration_file.xml` file
3. Validate the XML configuration file, enter the following command:

```
> java weblogic.wtc.gwt.WTCValidateCF your_XML_configuration_file
```
4. Edit the `.\config\mydomain\setEnv.cmd`.
 - Add the pathname of the WebLogic Tuxedo Connector `jamti.jar` file to the CLASSPATH.
5. Edit the `.\config\mydomain\startWebLogic.cmd`.
 - Add the pathname of the WebLogic Tuxedo Connector `jamti.jar` file to the CLASSPATH.
6. Update the domain environment. Run the `.\config\mydomain\setEnv.cmd`
7. Start the default server. Run the `.\config\mydomain\startWebLogic.cmd`
8. Start the default console. Open the `mydomain` domain
9. Open **Deployments > Startup & Shutdown**
10. Create a startup class.
 - Set the classname to: `weblogic.wtc.gwt.WTCStartup`
 - Set the arguments to:
`BDMCONFIG=.\config\mydomain\your_configuration_file`
11. Create a shutdown class.
 - Set the classname to: `weblogic.wtc.gwt.WTCShutdown`
12. Restart the WebLogic Server.

The WebLogic Tuxedo Connector is now installed on the default server.