

TIBCO Enterprise Message Service™

Release Notes

Software Release 8.0.0

June 2013

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Preface

TIBCO is proud to announce the latest release of TIBCO Enterprise Message Service™. This release is the latest in a long history of TIBCO products that leverage the power of the Information Bus® to enable truly event-driven IT environments. To find out more about how TIBCO Enterprise Message Service and other TIBCO products are powered by TIB® technology, please visit us at www.tibco.com.

TIBCO Enterprise Message Service software lets application programs send and receive messages according to the Java Message Service (JMS) protocol. It also integrates with TIBCO Rendezvous and TIBCO SmartSockets messaging products.

Topics

- [Related Documentation, page vi](#)
- [Typographical Conventions, page viii](#)
- [Connecting with TIBCO Resources, page xi](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO Enterprise Message Service Documentation

The following documents form the TIBCO Enterprise Message Service documentation set:

- *TIBCO Enterprise Message Service User's Guide* Read this manual to gain an overall understanding of the product, its features, and configuration.
- *TIBCO Enterprise Message Service Central Administration* Read this manual for information on the central administration interface.
- *TIBCO Enterprise Message Service Installation* Read the relevant sections of this manual before installing this product.
- *TIBCO Enterprise Message Service C & COBOL Reference* The C API reference is available in HTML and PDF formats.
- *TIBCO Enterprise Message Service Java API Reference* The Java API reference can be accessed only through the HTML documentation interface.
- *TIBCO Enterprise Message Service .NET API Reference* The .NET API reference can be accessed only through the HTML documentation interface.
- *TIBCO Enterprise Message Service Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release. This document is available only in PDF format.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- TIBCO Rendezvous[®]
- TIBCO SmartSockets[®]
- TIBCO Hawk[®]
- TIBCO EMS[®] Client for z/OS (CICS)
- TIBCO EMS[®] Client for z/OS (MVS)
- TIBCO EMS[®] Client for IBM i

Third Party Documentation

- Java™ Message Service specification, available through <http://www.oracle.com/technetwork/java/jms/index.html>.
- *Java™ Message Service* by Richard Monson-Haefel and David A. Chappell, O'Reilly and Associates, Sebastopol, California, 2001.
- Java™ Authentication and Authorization Service (JAAS) *LoginModule Developer's Guide* and *Reference Guide*, available through <http://www.oracle.com/technetwork/java/javase/jaas/index.html>.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_HOME</i> <i>EMS_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. The directory into which such products are installed is referenced in documentation as <i>ENV_HOME</i>. The value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO Enterprise Message Service installs into a directory within <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>EMS_HOME</i>. The value of <i>EMS_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\ems\8.0.</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 ActiveMatrix BusinessWorks Concepts</i>. • To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> 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: <code>Ctrl+C</code>.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: <code>Esc, Ctrl+Q</code>.</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> <p><code>MyCommand [optional_parameter] required_parameter</code></p>
	<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> <p><code>MyCommand para1 param2 param3</code></p>

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

How to Join TIBCOCommunity

TIBCOCommunity 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. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.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

This document includes release notes for TIBCO Enterprise Message Service, Software Release 8.0.0.

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.

Topics

- [New Features, page 2](#)
- [Changes in Functionality, page 4](#)
- [Deprecated and Removed Features, page 5](#)
- [Migration and Compatibility, page 7](#)
- [Closed Issues, page 8](#)
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New Features

This section lists features added since the last major (8.0.0) release of this product.

Release 8.0

The following are new features in this release:

Support for JMS 2.0

This release adds support for the JMS 2.0 specification. Currently, this support is offered only to Java clients. The features added with JMS 2.0 include:

- **Delivery Delay** Message publishers can now specify a delivery time for messages. The EMS server will only deliver the message after the time delivery time specified when the message is published. For more information, see the section on Delivery Delay in the *TIBCO Enterprise Message Service User's Guide*.
- **Asynchronous Sending** Message producers can now send messages asynchronously, offloading the notification of the success or failure to another thread and thereby increasing performance in certain situations. For details, see the section on Sending Messages Synchronously and Asynchronously in the *TIBCO Enterprise Message Service User's Guide*.
- **Shared Subscriptions** An application can now share the work of message consumption across multiple topic consumers. When message consumers share a subscription to a topic, only one consumer will receive a published message. For details, see the section on Shared Subscriptions for Topics in the *TIBCO Enterprise Message Service User's Guide*.

Additionally, the following new Java admin API methods implement the Shared Subscriptions feature:

- `ConsumerInfo.getSharedSubscriptionName`
- `ConsumerInfo.isShared`
- `TopicInfo.getDurableSubscriptionCount`
- `TopicInfo.getSubscriptionCount`

For details on these Java admin API methods, see the *API Reference*, available through the HTML documentation. For details on the equivalent C and .NET admin methods, see the *TIBCO Enterprise Message Service C & COBOL Reference* and the *API Reference*.

- **Simplified API** In addition to the API provided with the JMS 1.1 specification, which is now called the Classic API, the JMS 2.0 specification offers a simpler and less verbose API called the Simplified API. For details, see the section on the JMS 2.0 Specification in the *TIBCO Enterprise Message Service User's Guide*.

Central Administration Monitoring

The monitoring feature allows you to see various metrics (depending on level of statistics configured in the EMS server) as well as runtime configuration settings. For details, see the section on Monitoring Servers in the *TIBCO Enterprise Message Service Central Administration*.

IBM System SSL Application ID

The new function `tibemsSSLParams_System_SetApplicationId` sets the application ID for IBM System SSL implementations.

For more information, see the *TIBCO Enterprise Message Service C & COBOL Reference*.

Logging Enhancement

A new `tibemsd` parameter has been introduced that allows you to specify the maximum number of log files you want to keep. See the description for `logfile_max_count` in the *TIBCO Enterprise Message Service User's Guide*.

JNDI Lookup

The EMS .NET API now supports JNDI lookup of `EMSDTCConnectionFactory` objects. An administrator can now create a `EMSDTCConnectionFactory` in JNDI and an EMS .NET application will be able to look it up using either `LookupContext` or `LdapLookupContext`

Changes in Functionality

This section lists changes in functionality since the last major release of this product.

Release 8.0

The following are changes in functionality in this release.

- **Hibernate Installation Procedure** You can now elect to download and install Hibernate Core for Java during the installation of TIBCO Enterprise Message Service. See the *TIBCO Enterprise Message Service Installation* guide for more information.
- **Installation Options** Three Installation profiles are now available, allowing you to choose just the client or server, or to select a full development installation.
- **Administration Tool Commands and Topic Consumers** With this release and the introduction of shared subscriptions, the relationship between topic subscriptions and topic consumers has changed. Most importantly, the number of subscriptions to a topic is not always equal to the number of consumers.

As a result, the output produced by some administration tool commands has changed:

- `show topics` — now reports the number of subscriptions and durable subscriptions, not the number of consumers.
- `show topic` — reports the number of subscriptions, durable subscriptions, and consumers. The number of consumers represents the number of *active* (that is non-closed) consumer objects created by applications. Offline or closed durable consumers are not included in the count.
- `show consumers` and `show stat consumers` — no longer report offline durable subscribers.

Refer to the *TIBCO Enterprise Message Service User's Guide* for details on these commands.

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).

Release 8.0

Deprecated Features

The following features are deprecated in this release.

- The `TopicInfo.getDurableCount` Java admin method and equivalent C and .NET methods are deprecated. Instead, use `TopicInfo.getDurableSubscriptionCount`, and equivalent methods in C and .NET.

Removed Features

Platform Support

Please note the following changes in platform support.

Platform	Status	Notes
AIX 5.3	Obsolete	This release now supports AIX 6.1 (PowerPC).
Mac OS X 10.6 (x86)	Obsolete	TIBCO Enterprise Message Service now supports Mac OS X 10.7.
Solaris 8, 9 Sun SPARC	Obsolete	This release now supports Solaris 10 Sun SPARC.

TIBCO Hawk

As of Software Release 7.0.0, the `com.tibco.tibjms.admin.hawk` package is no longer included with TIBCO Enterprise Message Service. In order to use TIBCO Hawk to monitor TIBCO Enterprise Message Service, a minimum of TIBCO Hawk version 4.9 is required. As of Hawk 4.9, the `com.tibco.tibjms.admin.hawk` package is built into the installation.



- With Hawk 4.9 (that ships with TRA 5.8.0), the microagent is still embedded in `hawk/4.9/lib/tibjmsadmin.jar`, which may cause a conflict with `ems/7.0/lib/tibjmsadmin.jar` if an application needs to access both the microagent and the EMS Admin API.
- With Hawk 5.0, the microagent sits in its own archive:
`hawk/5.0/plugin/ems/hawkemshma.jar`
There should be no conflict.

Migration and Compatibility

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

Release 8.0

Updating the Database Schema

This release of TIBCO Enterprise Message Service includes some enhancements and changes to the database store feature. After installing the new version of EMS, you must run the EMS Schema Export Tool with the `-updateall` `-export` options to apply these changes to your database store implementation.

For more information, see the section on the EMS Schema Export Tool in the *TIBCO Enterprise Message Service User's Guide*.

Closed Issues

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

Closed in Release	Key	Summary
8.0.0	EMS-5295	When a store definition contains unknown properties, the server now reports the configuration error. It will fail to start if the <code>startup_abort_list</code> contains <code>CONFIG_ERRORS</code> .
8.0.0	EMS-5287	Messages received as part of an XA transaction (by an application using fault tolerant URLs) may not be redelivered if a communication error occurs while ending this transaction (for instance if the EMS server is not reachable or is performing a failover), and yet be committed as part of the next transaction.
8.0.0	EMS-5256	Fixed an error that caused memory leaks during a server deployment through Central Administration.
8.0.0	EMS-5247	Fixed an error that caused memory leaks when Central Administration was used to add, modify, or revoke ACLs.
8.0.0	EMS-5216	Fixed an issue that could cause the EMS Server to crash when EMS Java clients (version 6.0+) called <code>QueueBrowser.close()</code> after the queue had been administratively deleted.
8.0.0	EMS-5214	Fixed an issue which caused server to discard too many messages on a queue using <code>mstore</code> -based store when queue had <code>overflowPolicy=discardOld</code> .
8.0.0	EMS-5186	Fixed a memory leak that occurred when a route disconnected, if the route was previously in a stalled state.
8.0.0	EMS-5179	Fixed an issue that would prevent messages on the system undelivered queue <code>\$sys.undelivered</code> to be browsed or consumed after a server restart, if those messages originally belonged to a queue with <code>maxRedelivery</code> property and a store of type <code>mstore</code> , and those messages were moved to <code>\$sys.undelivered</code> after the <code>maxRedelivery</code> limit was reached.
8.0.0	EMS-4887	Fixed an error that prevented the <code>ssl_dh_size</code> parameter from taking effect when set using Central Administration.

Closed in Release	Key	Summary
8.0.0	EMS-4750	Previously, a Central Administration validation error was generated if spaces were added between trace options when specifying <code>log_trace</code> or <code>console_trace</code> settings. This has been fixed to allow leading and trailing white space in a comma separated list.
8.0.0	EMS-4681	Previously, the working copy of the EMS server JSON configuration file did not always match the configuration file that would be deployed. Certain fields, such as obfuscated passwords, were not transformed until deployment. This has been corrected so that the displayed working copy always shows exactly what will be sent to the server upon deployment.
8.0.0	EMS-4665	Fixed an error that caused the Central Administration server to open the jetty connector at a random port.
8.0.0	EMS-4662	Previously, the Central Administration page showed a redeploy option for failed deployments. This has been fixed. Only successful previous deployments can be redeployed.
8.0.0	EMS-4655	The help option for the EMS server has been updated to include descriptions for <code>-config</code> with JSON files, <code>-secondary</code> , and <code>-forceStart</code> .
8.0.0	EMS-4654	Fixed an error that caused all EMS servers configured with JSON configuration files to log that they were "Configured as fault tolerant primary", regardless of the actual settings.
8.0.0	EMS-4579	Fixed an error that could cause the EMS server to start successfully even with an invalid stores configuration.
8.0.0	EMS-4360	Fixed an error that could cause an EMS standby server to fail when mstores were configured and certain administrative commands were issued to that server, including <code>set server track_message_ids</code> .
8.0.0	EMS-4327	Fixed an error that sometimes caused message loss when messages were rolled back to a destination with <code>overflowPolicy=discardOld</code> and mstores configured.
8.0.0	EMS-3897	Fixed an error that caused an application's connection to be unusable—and show as stopped in the tibemsadmin tool—if the client library tried to connect to a non-EMS server process that was incorrectly part of the FT URL list.

Closed in Release	Key	Summary
8.0.0	EMS-2651	Fixed an issue that would cause the C API call <code>tibemsBytesMsg_GetBytes()</code> to return <code>TIBEMS_INVALID_ARGUMENT</code> if the received message had an empty body. It now returns <code>TIBEMS_OK</code> and a byte size of zero.

Known Issues

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

Key	Summary/Workaround
8.0.0	<p>Summary Installing EMS 7.0 in a <i>TIBCO_HOME</i> environment where EMS 8.0 has already been installed is not supported.</p> <p>Workaround If required, install EMS 7.0 in a <i>TIBCO_HOME</i> environment separate from that of EMS 8.0.</p>
6.3.0	<p>Summary When configuring SSL on z/Linux, authentication fails if a PEM format certificate with P7 suffix is specified to the IBM JRE.</p> <p>Workaround Modify the certificate to be in DER format with a P7 suffix.</p>
6.1.0	<p>Summary The JMSHeader fields of messages imported from SmartSockets cannot be modified.</p> <p>Workaround None.</p>
6.0.0	<p>Summary Using both multicast and the SmartSockets bridge at the same time is not supported.</p> <p>Workaround None.</p>
6.0.0	<p>Summary The EMS server does not load OCI drivers (used with the OracleRAC database server).</p> <p>Workaround In order to load the OCI libraries, specify the driver location using the <code>module_path</code> parameter in the <code>tibemsd.conf</code>. For example:</p> <pre>module_path=/rv/tools/tibjms/Oracle11gClient/linux24gl23/x86/oci32</pre> <p>Note that TIBCO SmartSockets users also use the <code>module_path</code> parameter to dynamically load the SmartSockets library files. In order to define both OCI and SmartSockets library locations, separators should follow the same conventions used to specify <code>PATH</code>. On Unix platforms separate paths using a colon (:). On Windows platforms, use a semicolon. For example:</p> <pre>module_path= c:\tibco\ss\bin\i86_w32;c:\Oracle11gClient\oci32</pre>
5.1.5	<p>Summary When running EMS in FIPS compliant mode, DSA certificates cannot be used.</p> <p>Workaround Use RSA certificates when running EMS in FIPS compliant mode.</p>

Key	Summary/Workaround
5.1.4 1-AC2L2T	<p>Summary On HP-UX platforms, authentication with LDAP can fail in some situations when the <code>ldap_operation_timeout</code> parameter is set.</p> <p>Workaround If failure occurs, do not use <code>ldap_operation_timeout</code>.</p>
5.0	<p>Summary The SmartSockets bridge is not supported for the 64-bit EMS server on the <code>hpux112/ia64</code> platform.</p> <p>Workaround None.</p>
5.0	<p>Summary During recovery, a server using database stores receives the following error, and startup fails:</p> <p>ORA-00904: "THIS"."TXNREC_STORE_ID": invalid identifier</p> <p>This is related to a known issue with Hibernate.</p> <p>Workaround Restart the server. On restart, the <code>tibemsd</code> recovers correctly, with no messages lost.</p>
4.1 1-22ZRNM	<p>Summary JSSE cannot read PKCS12 certificates generated by some versions of OpenSSL.</p> <p>Workaround Import the certificate into a web browser; then export the certificate to a new file with extension <code>.p12</code> (not <code>.pfx</code>).</p>