

# **TIBCO Enterprise Message Service™**

## **Release Notes**

*Software Release 6.0.0*  
*July 2010*

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# Release Notes

This document includes release notes for TIBCO Enterprise Message Service, Software Release 6.0.0.

Check the TIBCO Product Support web site at <http://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 one, you can request one. You must have a valid maintenance or support contract to use this site.

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## New Features

This section lists features and the release they were added to this product.

Reference # and Release	Feature
New Features in Release 6.0	
6.0	<p><b>Cursoring through Topics and Queues</b></p> <p>It is now possible to cursor through the list returned by the <code>show topics</code> and <code>show queues</code> commands. For more information, see the command descriptions in the <i>TIBCO Enterprise Message Service User's Guide</i>.</p>
6.0	<p><b>New Message Store Type</b></p> <p>TIBCO Enterprise Message Service now offers an additional message store type option, called the <code>mstore</code>. This store type is designed for systems that want to store large numbers of messages in memory, without sacrificing fast recovery times in the event of a failover. For details on the <code>mstore</code> feature, see the <i>TIBCO Enterprise Message Service User's Guide</i>.</p>
6.0	<p><b>Starting EMS using the Default Configuration</b></p> <p>You can now quickly start the EMS server with the default configuration using scripts. The scripts <code>tibemspd.bat</code> on Windows and <code>tibemspd.sh</code> on UNIX point to the default configuration.</p>
6.0	<p><b>Message Size Included in Message Tracing</b></p> <p>Message tracing now includes the message size (in bytes). See the <code>msg_size</code> trace property.</p>
6.0	<p><b>Host Identification in Trace Messages</b></p> <p>Trace statements related to connections can identify the host by its hostname, its IP address, or both. The new <code>trace_client_host</code> option in the <code>tibemspd.conf</code> determines how hosts are identified.</p>
6.0	<p><b>Multicast Log Rotation</b></p> <p>Log rotation is now available in multicast. A <code>tibemsmcd</code> command line option enables rotation.</p> <p><code>-logfile-max-size</code> is the maximum allowed logfile size before rotation. By default, logfiles have no size limit. The minimum value for the command line paramter is 64KB.</p>

Reference # and Release	Feature
6.0	<p data-bbox="392 222 832 251"><b>Fault Tolerant Failover Notification</b></p> <p data-bbox="392 270 1296 364">New methods provide notification of each phase of the fault-tolerant failover process, including disconnection, each connect attempt, and a successful reconnection. The new methods are:</p> <p data-bbox="392 383 461 413">For C</p> <ul data-bbox="392 430 852 487" style="list-style-type: none"> <li>• <code>tibems_GetExceptionOnFTEvents</code></li> <li>• <code>tibems_SetExceptionOnFTEvents</code></li> </ul> <p data-bbox="392 506 494 536">For Java</p> <ul data-bbox="392 553 1095 611" style="list-style-type: none"> <li>• <code>com.tibco.tibjms.Tibjms.getExceptionOnFTEvents</code></li> <li>• <code>com.tibco.tibjms.Tibjms.setExceptionOnFTEvents</code></li> </ul> <p data-bbox="392 630 504 659">For .NET</p> <ul data-bbox="392 677 995 734" style="list-style-type: none"> <li>• <code>TIBCO.EMS.Tibems.GetExceptionOnFTEvents</code></li> <li>• <code>TIBCO.EMS.Tibems.SetExceptionOnFTEvents</code></li> </ul>
6.0	<p data-bbox="392 751 801 781"><b>Additional Configuration Details</b></p> <ul data-bbox="392 800 1300 1194" style="list-style-type: none"> <li>• The <code>show config</code> command output now includes information from these server parameter settings: <ul data-bbox="435 881 793 1085" style="list-style-type: none"> <li>– <code>ssl_auth_only</code></li> <li>– <code>dbstore_classpath</code></li> <li>– <code>dbstore_driver_name</code></li> <li>– <code>dbstore_driver_dialect</code></li> <li>– <code>jre_library</code></li> <li>– <code>jre_option</code></li> </ul> </li> <li>• The <code>show store</code> command in the administration tool now includes a Fragmentation field, which displays the fragmentation level for file-based stores.</li> </ul>
6.0	<p data-bbox="392 1220 639 1249"><b>Message Swapping</b></p> <p data-bbox="392 1269 1310 1399">It is now possible to specify the number of messages that the TIBCO Enterprise Message Service server stores in memory before message swapping is enabled. The <code>destination_backlog_swapout</code> parameter is documented in the <i>TIBCO Enterprise Message Service User's Guide</i>.</p>

Reference # and Release	Feature
6.0	<b>Message Recovery</b>  New methods in all three APIs provide the ability to recover a message in the same way a session is recovered: <ul style="list-style-type: none"><li>• <b>C</b> <code>tibemsMsg_Recover</code></li><li>• <b>Java</b> <code>Tibjms.recoverMsg</code></li><li>• <b>.NET</b> <code>Tibems.RecoverMsg</code></li></ul>
6.0	<b>epoll</b>  TIBCO Enterprise Message Service now uses <code>epoll</code> , instead of <code>select()</code> , on Linux.
6.0	<b>Redelivery Delay</b>  A new destination property has been added to this release of TIBCO Enterprise Message Service. The <code>redeliverydelay</code> property can be used to determine how long the EMS server waits before retuning an unacknowledged message to the message queue. For details about the new property, see the <i>TIBCO Enterprise Message Service User's Guide</i> .
6.0	<b>Incoming Message Size</b>  A new parameter is available in the <code>tibemsd.conf</code> file. The <code>max_client_msg_size</code> parameter Sets a maximum size for incoming messages. When the parameter is set, the EMS server rejects incoming messages that are larger than the specified size limit.
6.0	<b>Suspend and Resume Routes</b>  Two previously undocumented administration tool commands, <code>suspend route</code> and <code>resume route</code> , are now documented. For more information, see the <i>TIBCO Enterprise Message Service User's Guide</i> .



Reference # and Release	Feature
6.0	<b>Error Documentation</b> <p>New error code documentation, including:</p> <ul style="list-style-type: none"><li>• <b>Additional Information on Transaction Exceptions</b> When a transaction fails due to a send error or an acknowledge error, the EMS server now provides information about the operation to the client, including its status and the destination. Send errors include the inability to create the destination, lack of required ACL permissions, and an exceeded destination limit. An acknowledge error occurs when the message being acknowledged no longer exists.</li><li>• <b>Durables</b> The Error and Status Messages appendix in the <i>TIBCO Enterprise Message Service User's Guide</i> now includes details about the warning message: <code>Deleting and recreating durable &lt;durable name&gt; due to change in client attributes: destination.</code></li><li>• <b>Temporary Destinations</b> The EMS server log now includes additional information about the message <code>ERROR: Invalid request to delete temporary destination.</code> The new information includes the connection ID, making it easier to determine which client is sending bad requests.</li></ul>

## Compatibility With Previous Versions

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### Release 6.0.0

#### Updating the Database Schema

The 6.0 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.

#### Browsing Queues with an Older EMS Client

For best performance, TIBCO Enterprise Message Service clients should upgrade to release 6.0.0 if they consume messages from queues that store messages in mstores. That is, a queue where the destination `store` property is set to a store of type `mstore`. If a 5.x or below client browses an mstore-based queue with an EMS 6.0.0 server, the server prints a warning that the client browsing the queue must be upgraded for optimum performance.

#### Synchronization with TIBCO Enterprise Message Service Central Administration

TIBCO Enterprise Message Service deployments that include mstore feature parameters are not supported by TIBCO Enterprise Message Service Central Administration version 1.0.

#### Failsafe

The `failsafe` parameter is deprecated and is not compatible with the multiple store feature. The same functionality can be achieved through the configuration of message stores and default store files.

When upgrading, update `queues.conf` and `topics.conf` to replace the `failsafe` property with:

```
store= $sys.failsafe
```

Failure to do so results in a mixed configuration error.

## Transactional Consumers on Routed Queues

TIBCO Enterprise Message Service does not support consuming messages transactionally from a routed queue. However, previous versions of EMS did not prevent applications from doing so. Starting in EMS 6.0, message consumption from a routed queue is rejected. If you have existing applications which depend on this behavior, you may use the

`allow_unsupported_tx_routed_q_consumers` parameter in the `tibemsd.conf` to allow these consumers.

## Changes in Functionality

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This section lists changes to product functionality and the release when the change was introduced.

### Release 6.0.0

#### Close Queue Browsers

You *must* close the queue browser after an application finishes with the browser. An open queue browser maintains its state on the EMS server, and can affect server operations and statistics.

#### .NET Assembly Versioning

This release of TIBCO Enterprise Message Service introduces versioning in the .NET assembly files. Prior to TIBCO Enterprise Message Service release 6.0.0, all EMS .NET assemblies showed an assembly version number 1.0.0.0, which allowed client applications to upgrade to the latest version of EMS without rebuilding.

This same functionality is now available through the introduction of `policy` DLL files, which are included for each EMS assembly.

#### Enabling SSL in Clients

To use an SSL connection to the EMS server, a client must now include these JAR files in the `CLASSPATH`:

- `tibcrypt.jar`
- `slf4j-api-1.4.2.jar`
- `slf4j-simple-1.4.2.jar`

These JAR files are installed in `EMS_HOME/lib`.

#### Deleting Topics using the Administration Tool and API

The administration tool and admin API cannot delete a topic if matching messages are awaiting delivery to a consumer on a different topic. An administrative deletion of specific topics will now fail if some of the matching messages could not be discarded because they are pending for consumer(s) on a different topic.

## Automatic Message Buffer Resizing

The TIBCO Enterprise Message Service server now automatically decreases the size of its internal message buffer when the recent incoming messages significantly smaller than the buffer size. The buffer shrinks only in response to incoming messages or pings. Therefore, if an application stops sending messages and `client_heartbeat_server` is not set, this shrinkage does not occur.

## Dynamic Routed Queues

As in previous releases, dynamic routed queues are illegal. However, the server now prints a message to this effect. If the `queues.conf` file includes a dynamic queue with the global property set to enable routing, the TIBCO Enterprise Message Service server now prints a message that `dynamic routed queues are not supported`.

## Exception Thrown when Route Undefined

When creating a durable, the administration tool and admin API throw an exception if the `route` parameter is `true` and a route has not been defined. Previously, no exception was thrown when a route was not defined.

## Send and Receive Buffer Sizes

On Linux platforms, the EMS server does not by default set the send and receive buffer sizes. By default, Linux auto-tuning controls buffering. To control this behavior, set the `socket_send_buffer_size` and `socket_receive_buffer_size` parameters in the `tibemsd.conf`.

## Destination Statistics Header File

The destination statistics header file has been renamed from `ddeststat.h` to `deststat.h`. The file is located in:

```
./include/tibems/deststat.h
```

## Method Name Change

In previous releases the method name for `getExplicitConfigOnly` included a typo. The method is now correctly named `getExplicitConfigOnly`.

## PRODCONS Tracing Scope

The server trace item `PRODCONS` now traces the initialization of queue browser, in addition to printing a message when a client creates or closes a producer or consumer.

**Support for TIBCO Rendezvous**

This release of TIBCO Enterprise Message Service integrates with TIBCO Rendezvous Software Release 8.2.2. Rendezvous users are strongly encouraged to install this upgrade release on all hardware.

**Support for TIBCO SmartSockets**

This release of TIBCO Enterprise Message Service integrates with TIBCO SmartSockets Software Release 6.8.2. SmartSockets users are strongly encouraged to install this upgrade release on all hardware.

## Deprecated & Obsolete Features

This section describes deprecated features and lists equivalent features that accomplish the same result, if relevant. 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 equivalent feature.

### Release 6.0

#### Deprecated

The following admin APIs are deprecated and will be removed in a future release:

- **Java** `ServerInfo.getFaultTolerantFailoverReread`
- **.NET** `ServerInfo.FaultTolerantFailoverReread`

#### .NET Compact Framework

Support for the .NET Compact Framework is deprecated. In a future release, support for the .NET Compact Framework library will be removed.

#### Document Deprecated

The *TIBCO Enterprise Message Service Application Integration Guide* is deprecated. Future releases of TIBCO Enterprise Message Service will not include this guide.

#### Platform Support

Please note the following changes in platform support.

Platform	Status	Description
AIX 5.2	Obsolete	TIBCO Enterprise Message Service now supports AIX 5.3 and later.
Mac OS X 10.4 x86	Obsolete	TIBCO Enterprise Message Service now supports Mac OS X 10.5 and later.

Platform	Status	Description
Mac OS X 10.4 PowerPC	Deprecated	TIBCO Enterprise Message Service now supports Mac OS X 10.5 and later.
Mac OS X 10.5 PowerPC	Deprecated	Additionally, TIBCO plans to support only Mac Intel hardware in a future release.



## Closed Issues

This section lists issues that were closed in the named releases. Unless otherwise noted, the closed issue affected installations across all platforms.

Reference # and Release	Description
<b>Issues Closed in Release 6.0.0</b>	
1-A6Y7Y7	Previously, the administration tool did not verify permissions when creating a JNDI name for a topic or queue using the command <code>create jndiname</code> . This has been corrected, and permissions are now checked.
1-A5PK2T	Fixed an error that allowed the <code>create factory</code> command in the admin tool to create a connection factory without specifying the URL. The URL is a required field, and the command fails if a valid URL is not specified.
1-AX869K	While processing the valid message record, the EMS server encountered an invalid sequence of bytes which did not represent a properly serialized sequence number. The current shipping EMS servers cannot progress beyond this corruption.
1-AEEYNQ	Fixed defect where messages were getting automatically swapped out of memory and into store upon recovery when <code>msg_swapping</code> was disabled.
1-AVDWRD	Fixed an error that sometimes caused the EMS server to crash when purging a queue with pending messages after running into reserve mode.
1-AKFFE4	Fixed an error in EMSSSLSystemStoreInfo that sometimes caused the EMS client to receive an error when attempting to create an SSL connection to the server.
1-ABTU97	Fixed an error that sometimes displayed the wrong stack trace for <code>tibemsErrorContext</code> object.
1-A2W5ZG	In infrequent cases, the EMS server sometimes crashed when receiving a duplicate “session commit” request from the same session. This has been fixed.
1-9GB3ND	Previously, the EMS server Windows service name included a space between <code>tibemsd</code> and the suffix. This has been corrected. The <code>emsntsrsg.exe</code> binary now places an underscore in the service name between the name and the suffix, rather than a space.

Reference # and Release	Description
1-9CDF69	Previously, the administration tool did not allow you to set the multicast statistics interval, although the admin API did. This has been corrected to allow the interval to be set using the <code>tibemsadmin</code> tool. Additionally, the user is now notified when the value of the specified multicast statistics interval is below minimum allowed.
1-9HWO5B	Fixed an error that caused delayed message acknowledgements for routed messages. In addition to an improved handling of acknowledgements, a new route trace message is now printed just prior to connecting to the remote server. If the connection blocks, it is possible to determine which remote server connection failed.
1-9DVOH5	Fixed an error that sometimes caused duplicate messages in routed configurations. This problem occurred when a durable subscription for a route was administratively created before the route itself was created. The server now returns an error if a route durable is created for a route that doesn't exist.
1-927B8P	In a routed configuration, if the downstream server has <code>track_message_ids</code> enabled, it would sometimes discard a resent message as a duplicate. This occurred following a consumer disconnection, where another consumer is waiting on the queue. This has been fixed.
1-86TV25	Fixed an error that sometimes caused C clients to crash when <code>SSLParams</code> were not set and the client passed an SSL server URL in either <code>tibemsConnection_Create</code> or <code>tibemsConnectionFactory_CreateConnection</code> . The C client now rejects this combination as invalid.
1-AL7N3H	Fixed an error that sometimes caused the EMS server to abort during startup. This occurred when the <code>ft_reconnect_timeout</code> was greater than 300, and the <code>startup_abort_list</code> was set to <code>CONFIG_ERRORS</code> .
1-8SDX4E	Fixed a bug where, although queue names of up to 249 characters are allowed in <code>queues.conf</code> , a queue name longer than 121 characters in <code>acl.conf</code> would cause the server to report an error during startup.
1-AHE8EB	Fixed an error that sometimes caused handle leakage when EMS connections were created or closed using the EMS .NET DLL and .NET Admin DLL.
1-9T9Y3I	Fixed an error that sometimes caused .NET clients to throw unhandled null reference exceptions when reconnection was triggered and <code>connectAttemptTimeout</code> or <code>ReconnectAttemptTimeout</code> was used.

Reference # and Release	Description
1-9KF4B7	Fixed an error that sometimes caused errors in fault tolerant scenarios where database stores are used. The errors reported were <code>Dual-Active server detected</code> and <code>Cannot refresh when not locked</code> .
1-AOTGJH	Fixed an error in message recovery that permitted <code>acknowledge()</code> to be called on a message that was already recovered.
1-ACRFQX	Fixed an error that allowed C clients to fail to report errors returned by the compression library and instead send messages without the JMS Body. This has been fixed.
1-A3TU3B	Fixed an issue, present since EMS 5.0, that would prevent ACLs on system queues (such as <code>\$sys.undelivered</code> ) if no parent queue (such as <code>&gt;</code> ) was present in <code>queues.conf</code> .
1-989RVU	Fixed an error that caused the <code>ServerInfo</code> to print unknown <code>user_auth</code> setting when <code>jass</code> was specified.
1-8YJLG2	Fixed a problem with the <code>compact</code> command that caused the server to ignore a specified timeout, if a space character was included after the timeout value.
1-7Z926S	Fixed a problem where the <code>tibemsadmin create user</code> command, when given a password that is too long, creates the user with no password. Passwords can now be up to 4096 characters.
1-AV189G	This resolves an issue that prevented the EMS server from reconnecting to the LDAP server after the LDAP server was reset.
1-AGWO0P	Fixed an error that sometimes caused the EMS server crash after failing to allocate sufficient memory needed to process a message.
1-9WBE7N	Previously, the size limit for including message bodies in the trace file was undocumented. This has been corrected. Setting <code>trace=body</code> includes the message body in trace messages when the message size is less than 1 MB, including the header. When a message is larger than 1 MB, the body is not included in trace messages.
1-9ZDT3A	Previously, the warning message <code>Deleting and recreating durable due to change in client attributes</code> was not clearly printed as a warning. This has been corrected.

## Known Issues

Identified in Release	Summary/Workaround
6.0.0	<p><b>Summary</b> Using both multicast and the SmartSockets bridge at the same time is not supported.</p> <p><b>Workaround</b> None.</p>
6.0.0	<p><b>Summary</b> The EMS server does not load OCI drivers (used with the OracleRAC database server).</p> <p><b>Workaround</b> 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>
6.0.0	<p><b>Summary</b> Due to a limitation in NFS-based file systems, the mstore feature is not supported on Mac OS X PowerPC platforms. However, the mstore feature is supported on Mac OS X 10.5+ on Intel hardware.</p> <p><b>Workaround</b> Use the mstore feature on Mac OS X 10.5+ systems using Intel hardware.</p>
5.1.5	<p><b>Summary</b> When running EMS in FIPS compliant mode, DSA certificates cannot be used.</p> <p><b>Workaround</b> Use RSA certificates when running EMS in FIPS compliant mode.</p>
5.1.5	<p><b>Summary</b> On HP-UX 11.11, neither the OpenLDAP libraries (static or dynamic) nor the EMS server support SSL connections to an LDAP server.</p> <p><b>Workaround</b> Connect to the LDAP server using a non-SSL connection.</p>
5.1.4	<p><b>Summary</b> The OpenLDAP shared libraries for HP-UX 11.11 do not support SSL connections to an LDAP server. Non-SSL connections are supported.</p> <p><b>Workaround</b> When SSL connections are required, use the OpenLDAP static libraries.</p>

Identified in Release	Summary/Workaround
5.1.4 1-AC2L2T	<p><b>Summary</b> On HP-UX platforms, authentication with LDAP can fail in some situations when the <code>ldap_operation_timeout</code> parameter is set.</p> <p><b>Workaround</b> If failure occurs, do not use <code>ldap_operation_timeout</code>.</p>
5.1.1	<p><b>Summary</b> Documentation for the unshared state failover feature in the .NET client is not available through the standard TIBCO Enterprise Message Service documentation interface.</p> <p><b>Workaround</b> To access the documentation, open the <code>N_TIBCO_EMS_UFO.htm</code> file located in:</p> <p><code>EMS_HOME\doc\html\tib_ems_api_reference\api\dotNETUFO\html</code></p>
5.1 1-94OBDW	<p><b>Summary</b> Some clients may encounter errors when receiving messages with large Correlation IDs.</p> <p><b>Workaround</b> The JMS Correlation ID should be limited to 4 KB in size.</p>
5.0	<p><b>Summary</b> The SmartSockets bridge is not supported for the 64-bit EMS server on the following platforms:</p> <ul style="list-style-type: none"> <li>• <code>hpux111/hppa</code></li> <li>• <code>hpux112/ia64</code></li> </ul> <p><b>Workaround</b> None.</p>
5.0	<p><b>Summary</b> Support for multicast, database storage, and extensible security features is not provided for HP-UX 11.11.</p> <p><b>Workaround</b> None.</p>
5.0	<p><b>Summary</b> Setting the <code>logfile</code> parameter in the <code>tibemsd.conf</code> file to a file path containing a space causes the EMS server to create the log file in the wrong place, unless the file path is surrounded by double quotes.</p> <p><b>Workaround</b> Enclose the file path in double quotation marks.</p>
5.0	<p><b>Summary</b> During recovery, a server using database stores receives the following error, and startup fails:</p> <pre>ORA-00904: "THIS"."TXNREC_STORE_ID": invalid identifier</pre> <p>This is related to a known issue with Hibernate.</p> <p><b>Workaround</b> Restart the server. On restart, the <code>tibemsd</code> recovers correctly, with no messages lost.</p>

Identified in Release	Summary/Workaround
4.4 1-19RIVF	<p><b>Summary</b> While confirming messages from a routed queue, if the daemon where queue exists is killed and restarted, some of the messages will be redelivered to the client.</p> <p><b>Workaround</b> None.</p>
4.2 1-5DU9WW	<p><b>Summary</b> InstallShield problems prevent uninstalling EMS from Linux 24gl23 Itanium platform.</p> <p><b>Workaround</b> Uninstall using this command line (all on one line):</p> <pre>java -cp TIBCO EMS_HOME/_uninst/uninstaller.jar run</pre>
4.1 1-22ZRNM	<p><b>Summary</b> JSSE cannot read PKCS12 certificates generated by some versions of OpenSSL.</p> <p><b>Workaround</b> 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>