

TIBCO Enterprise Message Service™

Release Notes

*Software Release 8.2.0
November 2014*

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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 FTL[®]
- TIBCO Rendezvous[®]
- TIBCO SmartSockets[®]
- 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_NAME</i> <i>EMS_HOME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none">• Name Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. If you specify a custom environment name, on Microsoft Windows the name becomes a component of the path to the product shortcut in the Windows Start > All Programs menu.• Path The folder into which the product is installed. This folder 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>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\8.2.</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:

<https://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 8.2.0.

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 for 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

The following new features have been added to version 8.2.0 of TIBCO Enterprise Message Service.

EMS Transport for TIBCO FTL

TIBCO Enterprise Message Service can now exchange messages with TIBCO FTL using the EMS transport for TIBCO FTL. This feature is supported on those platforms where TIBCO FTL is supported. Please refer to the respective readme files of TIBCO Enterprise Message Service and TIBCO FTL.

For more information, see the chapter on Working with TIBCO FTL in the *TIBCO Enterprise Message Service User's Guide*.

Temporary Destination Properties

This release introduces support for setting the properties `maxBytes`, `maxMsgs` and `overflowPolicy` on temporary topics and queues through the use of the temporary destination wildcard `TMP.>`.

For more information, see the section on Temporary Destination Properties in the *TIBCO Enterprise Message Service User's Guide*.

Queue Selector Improvements

This release introduces improvements for queue consumers with a selector where the queue has a large message backlog.

One improvement enhances the performance of such queue consumers by caching message properties in EMS server memory. As a result, you may see an increase of the memory footprint of the server if you have such queue consumers. If needed, please adjust the `max_msg_memory` server property, which controls how much memory the server uses for messages.

Note that for a given queue, the optimization is triggered the first time a consumer with a selector is created. However, only new incoming messages are optimized; messages already existing in the backlog are not optimized through the server cache. If the server is restarted and a fault tolerant consumer on the queue is restored, then all recovered messages in that queue are optimized.

Another improvement enhances the responsiveness of the EMS server in the same situation. This was achieved by implementing a time slicing mechanism.

Asynchronous Write Mode for mstore

The store type `mstore` now supports the asynchronous write mode. For details, see the `mode` parameter description in the `stores.conf` section of the *TIBCO Enterprise Message Service User's Guide*.

Additionally, this release introduces `mstore` performance improvements.

Enhancements to the .NET API Reference

The generated reference documentation for the .NET API has been updated with a new and improved look and feel. The .NET API reference can be accessed through the HTML documentation interface.

Originating Connections for Temporary Topics

This release includes the new `DestinationInfo.connectionID()` admin API Java method and its .NET equivalent that link a temporary topic back to its connection of origin. For more information, see the Java and .NET API Reference documentation, accessible through the HTML documentation interface.

Converting a Pair of Fault Tolerant Servers to JSON

The `tibemsconf2json` utility can now convert the text-based EMS server configuration files of both servers in a fault tolerant pair to a single JSON configuration file. For details, see the appendix on Converting Server Configuration Files to JSON in the *TIBCO Enterprise Message Service Central Administration* guide.

Timeout for Outgoing Route Connections

The `handshake_timeout` parameter for the EMS server, in addition to controlling the wait time for an incoming SSL connection to complete, now also controls the amount of time that the EMS server waits for an outgoing route connection (TCP or SSL) to complete.

Changes in Functionality

The following are changes in functionality in version 8.2.0 of TIBCO Enterprise Message Service.

Rendezvous Libraries

Rendezvous libraries are no longer included in the EMS package.

Users who have enabled Rendezvous transports to exchange messages with EMS must configure the `tibemsd` parameter `module_path` to point to previously installed Rendezvous libraries. That is, if `tibrv_transports=enabled`, then the `module_path` parameter must include a path to the appropriate Rendezvous libraries.

OpenSSL

TIBCO Enterprise Message Service now operates with OpenSSL version 0.9.8zc.

FIPS Compliance

FIPS Compliance is no longer supported on Solaris SPARC platforms.

The EMS server supports FIPS compliance only on Windows, Linux, and Solaris 10 (x86) platforms. On UNIX, only `tibemsd64`, the 64-bit version of the server, is supported. No 32-bit support is provided.

EMS Libraries

On UNIX systems, a number of libraries located in the `EMS_HOME/lib` directory appear in the form of versioned files and unversioned symlinks to those files.

Starting with this release, the EMS server loads the unversioned symlink and validates that the corresponding versioned file has the correct version. If it does not, the server prints out a warning.

Deprecated and Removed Features

The following tables list any features that have been deprecated or removed for version 8.2.0 of TIBCO Enterprise Message Service.

For deprecated features, if relevant, useful alternatives to the deprecated features are listed. 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.

Deprecated Features

Affected Component	Description	Deprecated in Release
Entrust SSL Libraries	Support for Entrust libraries with EMS clients for Java using SSL will be dropped after this release.	8.2.0
JAAS and JACI	This release deprecates the <code>jaas_classpath</code> and <code>jaci_classpath</code> parameters. Users should migrate to the new <code>security_classpath</code> parameter.	8.1.0
Client Libraries	The <code>TopicInfo.getDurableCount</code> Java admin method and equivalent C and .NET methods are deprecated. Instead, use <code>TopicInfo.getDurableSubscriptionCount</code> , and equivalent methods in C and .NET.	8.0.0

Removed Features

Affected Component	Description	Deprecated in Release	Removed in Release
Stores	<p>The 32- and 64-bit <code>tibemsdb5revert</code> executables are no longer included in the TIBCO Enterprise Message Service packages.</p> <p>This tool was used to revert EMS store files from software release 5.x to a format compatible with 4.x.</p>	N/A	8.2.0

Affected Component	Description	Deprecated in Release	Removed in Release
C Client API	Because the C API does not support character conversion, <code>tibemsBytesMsg_ReadUTF</code> and <code>tibemsBytesMsg_WriteUTF</code> have been removed.	N/A	8.1.0
TIBCO Hawk	<p>The <code>com.tibco.tibjms.admin.hawk</code> 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 <code>com.tibco.tibjms.admin.hawk</code> package is built into the installation.</p> <ul style="list-style-type: none">With Hawk 4.9 (that ships with TRA 5.8.0), the microagent is still embedded in <code>hawk/4.9/lib/tibjmsadmin.jar</code>, which may cause a conflict with <code>ems/7.0/lib/tibjmsadmin.jar</code> 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: <code>hawk/5.0/plugin/ems/hawkemshma.jar</code> There should be no conflict.	N/A	7.0.0

Platform Support

Please note the following changes in platform support.

Platform	Status	Notes
Mac OS X 10.8	Obsolete	
Novell SUSE Linux Enterprise Server 11.0	Obsolete	This release now supports Novell SUSE Linux Enterprise Server 11.3.

Migration and Compatibility

The following are instructions on how to migrate from a previous release to version 8.2.0 of TIBCO Enterprise Message Service.

Migrating from Release 8.X

There are no migration procedures or compatibility issues when migrating from an 8.x release.

Migrating from Release 7.X

Updating the Database Schema

The 8.0 release of TIBCO Enterprise Message Service introduced 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 lists closed issues in version 8.2.0 of TIBCO Enterprise Message Service.

Key	Summary
EMS-6093	Fixed an issue that could prevent an EMS server from honoring the <code>max_connections</code> limit. This occurred for example when fault tolerant clients reconnected due to network issues, or during the purge of connections after a server restart and the resulting fault tolerant reconnect timeout.
EMS-6068	Fixed an issue that could cause an EMS C client application to crash when two threads called <code>tibemsConnection_Close()</code> , on the same connection, at the same time.
EMS-6063	Fixed an issue that could cause topic subscribers with selectors and/or bridge targets with selector to stop receiving messages.
EMS-6036	When a route was promoted from passive to active using the administration tool or the admin API with a JSON-configured EMS server, that operation would succeed but the change was not persisted into the JSON file. (The change would be persisted if it was made using EMS central administration instead.) This has been fixed.
EMS-6027	Fixed an issue that would cause messages on a Shared Non-Durable Subscription to not be redelivered immediately.
EMS-6024	Fixed an error that could prevent the EMS server from exiting when a store file encountered a non-retryable write error.
EMS-6021	Fixed an issue that sometimes prevented queue messages from being immediately redelivered following a roll back.
EMS-6001	Previously, the <code>JMSDeliveryTime</code> for messages imported from Rendezvous or SmartSockets was not set and defaulted to zero instead of its correct value. This has been fixed.
EMS-5873	Fixed an error that caused the <code>tibemsconf2json</code> tool to truncate the target destination of a bridge if that destination had the word <code>selector</code> in its name.
EMS-5862	Previously, the text of the error generated when a client failed to authenticate with the EMS server could be misleading. It has been replaced with a more generic text: <code>authentication failed</code> .

Key	Summary
EMS-5851	When creating a new store in Central Administration, the store type for <code>mstore</code> was mistakenly displayed as <code>Multiple</code> store in the type dropdown box. This has been corrected to show the store type as <code>mstore</code> .
EMS-5849	Fixed an issue that could potentially delay clients' clock synchronization when the server parameter <code>clock_sync_interval</code> was specified and clients' connections were closed or lost. The following warnings could also be produced: <ul style="list-style-type: none"> • WARNING: Clock sync timer error: Not Found • WARNING: Clock sync timer error: Invalid Argument
EMS-5846	Fixed an issue that could prevent the destination's expiration override property from being honored in certain situations.
EMS-5841	Previously, a message selector configured on a bridge and using the <code>JMS_TIBCO_SENDER</code> message property would fail to select the corresponding messages. This has been fixed.
EMS-5840	Conditions leading to the truncation of file stores have been tweaked to be more predictable.
EMS-5837	The effect of setting the connect attempt and reconnect attempt properties at the client level on applications that use unshared state connection factories was not documented. You can now refer to the Set Connect Attempt and Reconnect Attempt Behavior in the <i>TIBCO Enterprise Message Service User's Guide</i> for more information.
EMS-5834	Fixed an error that caused unexpected results when the same EMS server URL was repeated multiple times within the unshared state configuration settings. For example, if an unshared state client used a URL of the form <code>Server_A+Server_A+Server_B</code> and <code>Server_A</code> was down, the UFO client never connected to <code>Server_B</code> . In this scenario, the unshared state client will now connect to <code>Server_B</code> .
EMS-5825 EMS-5842	Fixed an issue that could cause redelivered messages from a session with <code>DUPS_OK_ACKNOWLEDGE</code> or <code>EXPLICIT_DUPS_OK_ACKNOWLEDGE</code> to have the <code>JMSRedelivered</code> flag set to <code>false</code> instead of <code>true</code> after the closing of a consumer.
EMS-5823	Fixed an error that could cause an application to crash with a First-chance exception when using the Windows <code>LoadLibrary</code> function to load EMS DLLs, if no subsequent API call was made.

Key	Summary
EMS-5820 EMS-5821	Fixed a problem that could cause deadlock in the client libraries when closing a session (with a previously closed durable consumer with unacknowledged messages) in one thread, and acknowledging messages from a durable consumer created with another session in another thread. Those sessions came from the same connection.
EMS-5812	In EMS 8.0 and 8.1, it was not possible to add a new EMS server to the Central Administration server through a SSL connection URL. This has been fixed.
EMS-5811	<p>Fixed an issue that prevented a routed queue consumer from receiving messages if the queue's name in the home server referenced its own server. For example, if the configuration of server EMS-SERVER contained the global queue myQueue@EMS-SERVER.</p> <p>When the routed queue consumer was started on a proxy server, the following warning message would appear on the home server:</p> <p>WARNING: Routed Queue 'myQueue' is not a home Queue</p>
EMS-5806	<p>Fixed an issue that could cause the server to crash when a combination of events regarding a durable consumer occurred. Multiple situations could cause this, but all scenarios have the following events in common:</p> <ul style="list-style-type: none"> • Closing a durable with unacknowledged messages • Re-opening (and later closing) the durable using a different session • Unsubscribing the durable subscription <p>Crashes could occur in different places, including but not limited to consumers statistic gathering, dynamic destination cleanup, session recover, and so on.</p>
EMS-5804 EMS-5857	Fixed a possible deadlock in the client libraries. Situations where the client library could deadlock included when a connection was started, stopped or closed, and when a session was created. The risk of a deadlock was increased when the clock synchronization feature was used (clock_sync_interval defined in the server), or when messages had a JMSExpiration set.
EMS-5776	<p>The following parameters have been added to the output of the show config command in the administration tool:</p> <ul style="list-style-type: none"> • processor_ids • network_thread_count • selector_logical_operator_limit • max_msg_print_size • max_msg_field_print_size

Key	Summary
EMS-5775	Fixed an error that could cause the EMS server to crash when it had more than 32,000 connections.
EMS-5756	An ALL server tracing option was mentioned in comments of the sample server configuration files when such a tracing option does not exist. This has been fixed.
EMS-5732	Fixed an issue that prevented a SSL trusted certificate from being correctly added into a <code>ssl_trusted_list</code> or a <code>ssl_issuer_list</code> in the EMS JSON configuration file, when added through the administration tool.
EMS-5514	Previously, an EMS server with an active SSL route showed the corresponding connection as non-SSL. There was a similar issue with the connections between two EMS servers in a fault tolerant pair, if using SSL. This has been fixed.
EMS-5374	Fixed an error that could cause a C client to crash if a session was closed before closing a queue browser that was created using that same session.
EMS-4752	Previously the Unix scripts <code>tibemsd.sh</code> and <code>tibemsd64.sh</code> did not have executable permissions and could not be invoked from other directories. In EMS 8.2.0, <code>tibemsd.sh</code> and <code>tibemsd64.sh</code> are now installed with executable permissions and can be invoked from any directory.
EMS-3589	The EMS administration tool options <code>-pwdfile</code> and <code>-ssl_pwdfile</code> were previously not documented. These options are now described in the <i>TIBCO Enterprise Message Service User's Guide</i> .

Known Issues

The table lists known issues in version 8.2.0 of TIBCO Enterprise Message Service.

Identified In Release	Summary/Workaround
8.2.0	<p>Summary The version of the <code>libeay32.dll</code> shared library that is included with EMS is built to optionally support FIPS. This has a side-effect of preventing its relocation in a process address space during run time.</p> <p>Workaround If your Windows application fails to start due to a relocation error, try these workarounds:</p> <ol style="list-style-type: none"> 1. Relink your application with the <code>/FIXED</code> flag. 2. Relink your application with static libraries.
8.2.0	<p>Summary The administration tool allows you to import the same EMS transport for TIBCO FTL to multiple destinations. This is an invalid configuration, and causes errors on startup. An EMS transport for TIBCO FTL should only be specified as an import by one destination.</p> <p>Workaround Do not include the same EMS transport for TIBCO FTL in the <code>import</code> property for more than one destination.</p>
8.0.0	<p>Summary Installing EMS 7.0 in a <code>TIBCO_HOME</code> environment where EMS 8.0 has already been installed is not supported.</p> <p>Workaround If required, install EMS 7.0 in a <code>TIBCO_HOME</code> 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 <code>JMSHeader</code> 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>

Identified In Release	Summary/Workaround
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>
1-AC2L2T 5.1.4	<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> <pre>ORA-00904: "THIS_". "TXNREC_STORE_ID": invalid identifier</pre> <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>
1-22ZRN 4.1	<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>

