

***Oracle TimesTen  
In-Memory Database  
Error Messages and SNMP Traps  
Release 7.0***

B31690-02



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April 2007

Printed in the United States of America

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# About this Guide

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Oracle TimesTen In-Memory Database is a high-performance, in-memory data manager that supports the ODBC (Open DataBase Connectivity) and JDBC (Java DataBase Connectivity) interfaces.

This guide is for application developers who use and administer TimesTen and for system administrators who configure and manage the TimesTen Server. It provides a reference of all TimesTen error messages and information on SNMP traps.

To work with this guide, you should understand how database systems work. You should also have knowledge of SQL (Structured Query Language) and either ODBC or JDBC. See “[Background reading](#)” on page 6 if you are not familiar with these interfaces.

## TimesTen documentation

TimesTen documentation is available on the product distribution media and on the Oracle Technology Network:

[http://www.oracle.com/technology/documentation/timesten\\_doc.html](http://www.oracle.com/technology/documentation/timesten_doc.html).

Including this guide, the TimesTen documentation set consists of these documents:

Book Titles	Description
<i>Oracle TimesTen In-Memory Database Installation Guide</i>	Contains information needed to install and configure TimesTen on all supported platforms.
<i>Oracle TimesTen In-Memory Database Introduction</i>	Describes all the available features in the Oracle TimesTen In-Memory Database.
<i>Oracle TimesTen In-Memory Database Operations Guide</i>	Provides information on configuring TimesTen and using the ttIsql utility to manage a data store. This guide also provides a basic tutorial for TimesTen.
<i>Oracle TimesTen In-Memory Database C Developer's and Reference Guide</i> and the <i>Oracle TimesTen In-Memory Database Java Developer's and Reference Guide</i>	Provide information on how to use the full set of available features in TimesTen to develop and implement applications that use TimesTen.

<a href="#"><i>Oracle TimesTen In-Memory Database API Reference Guide</i></a>	Describes all TimesTen utilities, procedures, APIs and provides a reference to other features of TimesTen.
<a href="#"><i>Oracle TimesTen In-Memory Database SQL Reference Guide</i></a>	Contains a complete reference to all TimesTen SQL statements, expressions and functions, including TimesTen SQL extensions.
<a href="#"><i>Oracle TimesTen In-Memory Database Error Messages and SNMP Traps</i></a>	Contains a complete reference to the TimesTen error messages and information on using SNMP Traps with TimesTen.
<a href="#"><i>Oracle TimesTen In-Memory Database TTClasses Guide</i></a>	Describes how to use the TTClasses C++ API to use the features available in TimesTen to develop and implement applications.
<a href="#"><i>TimesTen to TimesTen Replication Guide</i></a>	Provides information to help you understand how TimesTen Replication works and step-by-step instructions and examples that show how to perform the most commonly needed tasks. This guide is for application developers who use and administer TimesTen and for system administrators who configure and manage TimesTen Replication.
<a href="#"><i>TimesTen Cache Connect to Oracle Guide</i></a>	Describes how to use Cache Connect to cache Oracle data in TimesTen data stores. This guide is for developers who use and administer TimesTen for caching Oracle data.
<a href="#"><i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i></a>	Provides information and solutions for handling problems that may arise while developing applications that work with TimesTen, or while configuring or managing TimesTen.

## Conventions used in this guide

TimesTen supports multiple platforms. Unless otherwise indicated, the information in this guide applies to all supported platforms. The term Windows refers to Windows 2000, Windows XP and Windows Server 2003. The term UNIX refers to Solaris, Linux, HP-UX, Tru64 and AIX.

TimesTen documentation uses these typographical conventions:

If you see...	It means...
<code>code font</code>	Code examples, filenames, and pathnames.  For example, the <code>.odbc.ini</code> or <code>ttconnect.ini</code> file.
<i>italic code font</i>	A variable in a code example that you must replace.  For example: <code>Driver=install_dir/lib/libtten.sl</code> Replace <i>install_dir</i> with the path of your TimesTen installation directory.



TimesTen documentation uses these conventions in command line examples and descriptions:

If you see...	It means...
<i>fixed width italics</i>	Variable; must be replaced with an appropriate value.
[ ]	Square brackets indicate that an item in a command line is optional.
{ }	Curly braces indicated that you must choose one of the items separated by a vertical bar (   ) in a command line.
	A vertical bar (or pipe) separates arguments that you may use more than one argument on a single command line.
...	An ellipsis ( . . . ) after an argument indicates that you may use more than one argument on a single command line.
%	The percent sign indicates the UNIX shell prompt.
#	The number (or pound) sign indicates the UNIX root prompt.

TimesTen documentation uses these variables to identify path, file and user names:

If you see...	It means...
<i>install_dir</i>	The path that represents the directory where the current release of TimesTen is installed.
<i>TTinstance</i>	The instance name for your specific installation of TimesTen. Each installation of TimesTen must be identified at install time with a unique alphanumeric instance name. This name appears in the install path. The instance name “giraffe” is used in examples in this guide.
<i>bits</i> or <i>bb</i>	Two digits, either 32 or 64, that represent either the 32-bit or 64-bit operating system.
<i>release</i> or <i>rr</i>	Two digits that represent the first two digits of the current TimesTen release number, with or without a dot. For example, 70 or 7.0 represents TimesTen Release 7.0.
<i>jdk_version</i>	Two digits that represent the version number of the major JDK release. Specifically, 14 represent JDK 1.4; 5 represents JDK 5.
<i>timesten</i>	A sample name for the TimesTen instance administrator. You can use any legal user name as the TimesTen administrator. On Windows, the TimesTen instance administrator must be a member of the Administrators group. Each TimesTen instance can have a unique instance administrator name.
<i>DSN</i>	The data source name.

This guide uses these icons to identify platform-specific information:

If you see	It means
	Information applies to TimesTen on a supported UNIX platform.
	Information applies to TimesTen on the Windows 2000, Windows XP and Windows 2003 and Windows 64-bit platform





Information applies to TimesTen on the HP-UX platform.



Information applies to TimesTen on the Solaris platform.

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Information applies to TimesTen on Tru64 platform.

## Background reading

For a Java reference, see:

- Horstmann, Cay and Gary Cornell. *Core Java(TM) 2, Volume I-- Fundamentals (7th Edition) (Core Java 2)*. Prentice Hall PTR; 7 edition (August 17, 2004).

A list of books about ODBC and SQL is in the Microsoft ODBC manual included in your developer's kit. Your developer's kit includes the appropriate ODBC manual for your platform:



- *Microsoft ODBC 3.0 Programmer's Reference and SDK Guide* provides all relevant information on ODBC for Windows developers.
- *Microsoft ODBC 2.0 Programmer's Reference and SDK Guide*, included online in PDF format, provides information on ODBC for UNIX developers.

For a conceptual overview and programming how-to of ODBC, see:

- Kyle Geiger. *Inside ODBC*. Redmond, WA: Microsoft Press. 1995.

For a review of SQL, see:

- Melton, Jim and Simon, Alan R. *Understanding the New SQL: A Complete Guide*. San Francisco, CA: Morgan Kaufmann Publishers. 1993.
- Groff, James R. / Weinberg, Paul N. *SQL: The Complete Reference, Second Edition*. McGraw-Hill Osborne Media. 2002.

For information about Unicode, see:

- The Unicode Consortium, *The Unicode Standard, Version 5.0*, Addison-Wesley Professional, 2006.
- The Unicode Consortium Home Page at <http://www.unicode.org>

## Technical Support

For information about obtaining technical support for TimesTen products, go to the following Web address:

<http://www.oracle.com/support/contact.html>



## *Warnings and Errors*

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This chapter first explains how to retrieve errors and warnings, and then provides a comprehensive list of all errors and warnings, ordered by error number.

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**Note:** Not all error numbers are currently assigned.

---

### Retrieving errors and warnings

In JDBC, the native error code and message can be retrieved as shown in the following example:

**Example 1.1**

```
private static void printSQLExceptions (SQLException e)
{
    while (e != null) {
        System.out.println("SQLState: " +
            e.getSQLState());
        System.out.println("Message : " +
            e.getMessage());
        System.out.println("Vendor  : " +
            e.getErrorCode());
        e.printStackTrace();
        e = e.getNextException();
        System.out.println("");
    }
    e.printStackTrace();
}

. . .

try {
    // JDBC method calls here
}
catch (SQLException ex) {
    ex.printStackTrace();
}
```

---

In ODBC the native error code and message can be retrieved with the **SQLError** function, as shown in the following example:

### Example 1.2

```
#define MSG_LNG 512

SQLCHAR szSqlState[MSG_LNG];          /* SQL state string */
SQLINTEGER pfNativeError;              /* Native error code */
SQLCHAR szErrorMsg[MSG_LNG];
/* Error msg text buffer pointer */
SQLSMALLINT pcbErrorMsg;
/* Error msg text Available bytes */
SQLRETURN ret = SQL_SUCCESS;

while ( ret == SQL_SUCCESS || ret == SQL_SUCCESS_WITH_INFO ) {
    ret = SQLError(henv, hdbc, hstmt, szSqlState, &pfNativeError,
                  szErrorMsg, MSG_LNG, &pcbErrorMsg);
    switch (ret) {
    case SQL_SUCCESS:
        fprintf(stderr, "*** %s\n*** ODBC Err = %s, ",
              "TimesTen Err = %ld\n",
              szErrorMsg, szSqlState, pfNativeError);
        break;
    case SQL_SUCCESS_WITH_INFO:
        fprintf(stderr, "*** Call to SQLError failed with return ",
              "code of SQL_SUCCESS_WITH_INFO.\n ",
              "*** Need to increase size of ",
              "message buffer.\n");
        break;
    case SQL_INVALID_HANDLE:
        fprintf(stderr, "*** Call to SQLError failed with ",
              "return code of SQL_INVALID_HANDLE.\n");
        break;
    case SQL_ERROR:
        fprintf(stderr, "*** Call to SQLError failed with ",
              "return code of SQL_ERROR.\n");
        break;
    case SQL_NO_DATA_FOUND:
        break;
    }
}
```

It is possible for a single ODBC or JDBC operation to generate multiple errors. These errors can be retrieved using multiple calls to the ODBC function **SQLError** or the JDBC method **SQLException**.

## Base level diagnostics

TimesTen optionally generates warnings in the range of 20000 and 29999 that describe basic diagnostic information for a particular connection. The generation of these messages is determined by the general connection attribute `Diagnostics`. For details, see ["Diagnostics"](#) in ["Oracle TimesTen In-Memory Database API Reference Guide"](#).

There is no means to control the generation of any other warnings or errors listed in this chapter.

## List of errors and warnings

The rest of this chapter consists of a table that lists all error messages. If an error is prefixed with “Warning,” the command completes but has a side effect the user needs to know about. For all other errors, the command terminates abnormally.

---

**Note:** A C language header file containing symbolic names for the various TimesTen internal error codes is shipped with TimesTen. It is named `tt_errCode.h` and is installed in:

install\_dir/include on UNIX

install\_dir\include on Windows

ODBC applications that want to handle TimesTen native errors can use this header file to identify the errors.

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The errors are listed according to the following ranges:

- [Errors 0 - 999](#)
- [Errors 1000 - 1999](#)
- [Errors 2000 - 2999](#)
- [Errors 3000 -3999](#)
- [Errors 4000 -4999](#)
- [Errors 5000 -5999](#)
- [Errors 6000 - 6999](#)
- [Errors 7000 - 7999](#)
- [Errors 8000 -8999](#)
- [Errors 9000 -9999](#)
- [Errors 10000 - 10999](#)
- [Errors 11000 - 11999](#)
- [Errors 12000 - 13999](#)
- [Errors 14000 - 14999](#)
- [Errors 15000 - 15999](#)
- [Errors 16000 - 16999](#)
- [Errors 17000 - 19999](#)
- [Errors 20000 - 39999](#)



## Errors 0 - 999

Error number	Error or warning message	Details
400	Data store header fails basic sanity test	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
402	Cannot close data store file, OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
403	Attempt to read from checkpoint truncated	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
404	Corrupted block header	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
406	Attempt to write truncated; <number of bytes> written instead of <requested number of bytes>	If this happens during commit, it may be due to limited disk space for reclaim. See description of error 902 for more information.
407	Failed to seek in checkpoint file. OS-detected error: <error>	Internal error: An attempt to seek within a checkpoint file has failed.
408	Failed to sync checkpoint file to disk. OS-detected error: <error>	Internal error: An attempt to sync a checkpoint file to disk has failed.
411	OS-detected error <error> while destroying directory <directory>	Warning only. TimesTen failed to destroy a directory due to an operating system error.
412	Bad file-open mode	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
413	Bad file-exists mode	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
414	Bad file-missing mode	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
415	Incompatible file-open modes	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
600	Checkpoint not done due to transaction commit/rollback failure	Commit or rollback of the transaction failed. As a result, checkpointing was not attempted. Consider performing a checkpoint in its own transaction.
601	Checkpoint failure	Checkpoint failed. Check that there is sufficient disk space and that data store files are writable, then retry.
602	Transaction already has a pending fuzzy checkpoint request	A <b>ttCkpt()</b> procedure has been called on a transaction that has another <b>ttCkpt()</b> request pending.
603	Transaction already has a pending checkpoint request	A <b>ttCkptBlocking()</b> procedure has been called on a transaction that has another <b>ttCkptBlocking()</b> request pending.
604	Log missing record for checkpoint <file> (lsn <LSN number>).	If the transaction log on disk has been truncated or otherwise corrupted, it may be missing log records corresponding to the checkpoints on disk. In this case, the transaction log is ignored, any log files existing are moved to the directory indicated in this message, and the data store is recovered from the checkpoints alone. This message is issued as a warning when this situation occurs.
605	Log record for checkpoint <file> (lsn <LSN number>) not accessible	If the transaction log on disk has been truncated or otherwise corrupted, it may be missing log records corresponding to the checkpoints on disk. In this case, an attempt is made to move any existing log files to another directory, so they can be ignored and recovery can continue with the checkpoints alone. If it is not possible to move the existing log files, this error is issued. The data store administrator may want to manually move or remove the truncated or corrupt log files and try connecting again.

Error number	Error or warning message	Details
606	Checkpoint cannot proceed because another checkpoint or backup is in progress	An attempt was made to checkpoint the data store while a backup or another checkpoint was in progress. Please wait until the backup or checkpoint has completed and retry the checkpoint.
607	Backup cannot proceed because another checkpoint or backup is in progress	An attempt was made to backup the data store while a checkpoint or another backup was in progress. Please wait until the backup or checkpoint has completed and retry the backup.
609	Data store failed validity check	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
610	End-checkpoint log record not found	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
620	Original GroupRestrict value does not match the current GroupRestrict value	The <b>GroupRestrict</b> attribute value for this connection is different from the <b>GroupRestrict</b> attribute value that was used when the data store was originally created.
621	Group <group_name> is not a valid OS group for GroupRestrict attribute	The group <i>group_name</i> that is specified as the <b>GroupRestrict</b> attribute value is not a valid operating system group.
622	User <user_name> does not have permission to connect to GroupRestricted data store	The user is not a member of the Group that is authorized to connect to the data store. Reset the <b>GroupRestrict</b> attribute.
623	User <user_name> does not have permission to create GroupRestricted data store	The user is not authorized to connect and to and create the data store. Reset the <b>GroupRestrict</b> attribute.
629	No permission to access data store files	The user is not authorized to connect to the data store. Reset the <b>GroupRestrict</b> attribute.

Error number	Error or warning message	Details
649	Log file <file name> has been purged	By default, TimesTen automatically removes archived log files at checkpoint time. To retain archived log files, set the <b>LogPurge</b> attribute to 0. For more details on log files, see "Log files" in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
650	Invalid backup type	The specified backup type is invalid. See <b>ttBackup</b> for a description of valid backup types.
651	Backup path is not enabled for incremental backup	The backup file must be enabled for incremental backups when it is created. See <b>ttBackup</b> .
652	Backup directory does not exist	Create or specify a valid backup directory.
654	Too many incremental-enabled backup directories	TimesTen supports the creation of up to eight incremental-enabled backup instances for each data store.
656	Incremental_enabled backup requires disk logging	Incremental backups are supported only for permanent disk-logging data stores.
657	Backup path exceeds maximum length of <number> characters	The backup path cannot exceed the path length indicated in the error message. Create or specify a path no longer than the maximum length.
658	Backup point is behind backup's log hold	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
659	Backup is out of date	The backup files specified by the backup directory and/or basename are not from the data store that is being backed up. They may be from a previous data store that had the same data store path name but which has since been destroyed. These backup files can be overwritten by specifying a backup with the <code>-force</code> option.
660	Requested backup point cannot be honored because needed log files have been purged	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
661	Requested backup point cannot be honored because it is in the future	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
662	Data store file <file_name> reflects unfinished restore operation.	Unable to recover from the specified data store file because it is the result of an incomplete restore operation. The most likely cause of this error is a user-initiated interruption of an in-progress restore operation. Other possible causes for the incomplete restore operation include an out of space condition in the file system that contains the data store's checkpoint files or a system crash. To correct the problem, address the issue that caused the interruption of the original restore operation and retry the restore.
663	Operation requires logging to disk	The requested operation requires that you enable disk-based logging ( <b>Logging</b> = 1).
700	Waiting for other 'in flux' threads failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
701	Marking data store 'in flux' failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
702	Connect failed because max number of connections exceeded	The maximum number of connections to the data store or instance has been exceeded. TimesTen allows maximum of 2048 concurrent data store connections per instance.
703	Subdaemon connect to data store failed with error TT<error_number>	Check other error messages for more information. If the problem cannot be identified from other errors, contact TimesTen <a href="#">Technical Support</a> .
704	Connecting to a data store that is invalid and still has connected clients	Another application connected to the data store has failed; the RAM-resident version of the database is corrupted. Once all users now connected to the data store disconnect from it, the data store will be rebuilt. Try to connect again later.
706	Spawning a thread in the daemon failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
707	Attempt to connect to a data store that has been manually unloaded from RAM	The application has tried to connect to a data store whose RAM residence policy is set to manual and which has been manually unloaded from RAM. Applications cannot connect to the data store. Use <b>ttAdmin</b> with the -ramLoad option to reload the data store.
709	Adding new data store to catalog failed, OS error '<error_number>'	When a data store is created, the daemon stores some information about the data store on disk. If this operation fails, this error is issued. The data store administrator should consider the OS error that is reported and take action accordingly. Additional information may be present in the syslog on UNIX and the Event Log on Windows. This may involve a disk-space problem or a file permission problem, for example. Make sure the daemon is running as the instance administrator on UNIX systems.
711	Data store creation in progress, try later	The data store is currently being created and, therefore, cannot be accessed.
712	Unable to lock data store memory segment, error <error_number>	<b>1</b> (EPERM) - indicates that the daemon was started by a user other than the super-user. Restart the daemon, as described in <a href="#">Chapter 3, “Working with the Oracle TimesTen Data Manager Daemon</a> in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> . <b>12</b> (ENOMEM) - indicates there was not enough lockable memory available on the system. Add more real memory, delete other memory-consuming processes or connect with a different value for the <b>MemoryLock</b> attribute.
713	Attempt to connect to data store as user "SYS"	You must supply a user name other than SYS to connect to the data store.

Error number	Error or warning message	Details
714	Log directory attribute does not match current value	Any log directory specified for a connection must agree with the value that was specified when the data store was created. A warning will be placed in the syslog on UNIX or the Event Log on Windows indicating the directory names that conflict. The data store administrator should amend the connection attribute and try reconnecting.
715	Unable to access log directory '<log_directory>'. OS-detected error: <error_details>	The path specified in the <b>LogDir</b> attribute is not accessible due to reasons described in <i>error_details</i> . TimesTen cannot perform the requested connect or disconnect operation. Change the <b>LogDir</b> attribute in the DSN to a valid directory or create the directory as needed.
720	Permission denied while opening directory <directory_name>	Permissions are not set correctly on the specified directory. Make sure the directory has read and execute permissions for the TimesTen application.
721	No such directory: <directory_name>	The specified directory does not exist. Create that directory, or specify another one.
722	Log flusher reports error <error_number> (<error>)	The log manager was not able to flush the log due to operating system error.
723	Log cursor is not open	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
724	Log cursor has no current position	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
725	Log cursor is unpositioned	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
726	Log cursor is at end of log	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
744	Log read encountered additional data after end of log	Recovery has encountered log data after the last complete and intact log record, which suggests that one or more log records may have been lost. This error should only occur after an operating system crash or other external event that corrupted one or more log files. Contact TimesTen <a href="#">Technical Support</a> .
745	Log file <file_name>" LFN_FMT " contains partial log block	Recovery has encountered a log file that ends with a partial log block. This error should only occur after an operating system crash or other external event that corrupted one or more log files. Contact TimesTen <a href="#">Technical Support</a> .
746	Extra log files found after end of log	Recovery has encountered log files after the file containing the last complete and intact log record. This error should only occur after an operating system crash or other external event that corrupted one or more log files. Contact TimesTen <a href="#">Technical Support</a> .
747	Log read encountered incomplete log record at location <number>" LFN_FMT ".%" LFO_FMT	Recovery has encountered an incomplete log record after the logical end of the log. This error should only occur after an operating system crash or other external event that corrupted one or more log files. Contact TimesTen <a href="#">Technical Support</a> .
748	Log ended unexpectedly at LSN <number>" UINTP_FMT ".%" UINTP_FMT "; recovery terminated	Recovery has encountered an error while reading transaction log and the <a href="#">LogAutoTruncate</a> first-connect option is set to 0. If you can determine and correct the problem, do so and try to connect again. Otherwise, contact TimesTen <a href="#">Technical Support</a> . Do not modify or remove any TimesTen checkpoint or log file without first making a backup copy of the original file.
749	Invalid log block found at location <number> -- details: <error_description>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .



Error number	Error or warning message	Details
750	Log read encountered log record with incorrect LSN at location <number> -- remainder of log ignored	TimesTen encountered an unexpected value while reading the log. During recovery, the log is effectively truncated at the point of the unexpected value, and the operation continues. The log corruption is likely the result of a crash affecting the disk controller. Depending on the position of the error, some logged information may be lost. It is extremely unlikely that durable commits are lost, but it is possible on some operating systems. If this error is encountered at any time other than recovery, is not the result of a crash that you believe may have affected the disk controller, or if you are concerned that durably committed information may have been lost, please contact TimesTen <a href="#">Technical Support</a> .
751	Log read encountered log record with bad length at location <number> -- remainder of log ignored	TimesTen encountered an unexpected value while reading the log. During recovery, the log is effectively truncated at the point of the unexpected value, and the operation continues. The log corruption is likely the result of a crash affecting the disk controller. Depending on the position of the error, some logged information may be lost. It is extremely unlikely that durable commits are lost, but it is possible on some operating systems. If this error is encountered at any time other than recovery, is not the result of a crash that you believe may have affected the disk controller, or if you are concerned that durably committed information may have been lost, please contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
752	Log read encountered log record with bad type at location <number> - remainder of log ignored	TimesTen encountered an unexpected value while reading the log. During recovery, the log is effectively truncated at the point of the unexpected value, and the operation continues. The log corruption is likely the result of a crash affecting the disk controller. Depending on the position of the error, some logged information may be lost. It is extremely unlikely that durable commits are lost, but it is possible on some operating systems. If this error is encountered at any time other than recovery, is not the result of a crash that you believe may have affected the disk controller, or if you are concerned that durably committed information may have been lost, please contact TimesTen <a href="#">Technical Support</a> .
754	Cannot open log copy file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
755	Cannot chmod log copy file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
756	Cannot write to log copy file <file_name>: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
759	Log file <file_name> has invalid file header -- details: <error_description>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
760	Attempt to read past the end of the log; LSN = <LSN_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
761	Cannot determine size of log file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
762	Invalid log truncation LSN <LSN_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
763	Cannot truncate log file <file_name>. OS-detected error <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
764	Cannot move away log file. OS-detected error <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
765	Cannot create log file copy directory. OS-detected error <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
766	Cannot create log reserve file <file_name>. OS-detected error <error_details>	The log manager was not able to create reserved log space due to operating system error.
767	Cannot chmod log reserve file. OS-detected error <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
768	Cannot determine size of log reserve file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
769	Log reserve file has invalid size <value>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
770	Cannot open log reserve file. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
771	Cannot write log reserve file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
772	Cannot seek in log reserve file. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
773	Cannot sync log reserve file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
774	Cannot close log reserve file. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
775	Cannot delete log reserve file. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
776	Cannot rename log reserve file; old name = <old_file_name>; new name = <new_file_name>.. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
777	Log reserve exhausted	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
778	Log write failed because filesystem is full; transaction must rollback	The filesystem that holds the log directory is full. You must abort your transaction. If your application has AutoCommit set to 0, your application must rollback the transaction. If your application has AutoCommit set to 1, the command failed and the application has no further responsibilities.
779	Request denied; transaction must rollback because log filesystem is full	This transaction has previously received error 778. No new requests are accepted for this transaction; the transaction must abort.
780	Log file <file_name> not found	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
781	Cannot sync log file. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
782	Cannot rename log file <file_name>. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
783	Cannot sync log file even after retrying for <number> msec. OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
784	Log record type is disallowed at this time	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
785	No log record exists at LSN <LSN_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
786	Cannot truncate log reserve file <file_name>. OS-detected error: <error_details>	The log manager was not able to maintain reserved log space due to operating system error.
787	Log file size exceeds maximum size of <size> MB	The log file exceeds the maximum defined size for TimesTen. Set the log file size to a size smaller than the maximum allowed limit. For details, see the description for the <a href="#">LogFileSize</a> attribute in the <i>Oracle TimesTen In-Memory Database API Reference Guide</i> .
790	Attempt to write to log truncated; <actual_number> bytes written instead of <expected_number> bytes	Unable to write all bytes to the log.
791	Cannot communicate with subdaemon	Could not connect to or disconnect from a subdaemon because it is not running. Consider restarting the daemon once all applications have disconnected.
792	Attempt to read from log file <file_name> truncated; <byte_count> bytes read	Unable to read all bytes from the log. Internal error. Contact TimesTen <a href="#">Technical Support</a> .
793	No idle subdaemons	Unable to connect to a data store because there are no idle subdaemon available. TimesTen supports eight shared data stores per daemon.
794	Thread join failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
795	Protocol failure	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
796	Failed to initialize procedure <procedure_name> with arguments/results <argument/result_list>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
797	Two threads using a single context	This error is issued by the debug version of the library only. If the error persists, contact TimesTen <a href="#">Technical Support</a> .
798	Daemon reports error <error_number>	Daemon encountered a problem while TimesTen was creating a data store, connecting to a data store, disconnecting from a data store or destroying a data store.
799	Unable to connect to daemon; check daemon status	Unable to connect to the daemon during a data store creation, data store connection or destroy data store operation.
800	Too many errors - error buffer overflow	The number of errors pushed onto the error buffer exceeds the maximum of 50.
801	Malloc (C library) failed	Unable to allocate memory for TimesTen internal data structures.
802	Data store space exhausted	Unable to allocate memory from the heap. An additional error message indicates which data partition is full. Try increasing the size of the appropriate data partition.
803	Name length exceeds 30 characters	The number of characters in the length of an identifier or user name has exceeded the maximum of 30.
804	Internal error: unknown error code <error_string>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
805	<operation_name> has not been implemented	Operation is recognized by the parser but its functionality is not currently available.
806	Garbage left on heap	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
807	Null pointer argument	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
808	Operation not atomic (failed and not undone)	Operation was not rolled back because <b>Logging</b> was not enabled. Data store may be inconsistent and may not be recoverable. You can try dumping and reloading with <b>ttBulkCp</b> . You can also attempt the operation again with logging turned on ( <b>Logging=1</b> ).
809	Heap page directory overflow - cannot allocate space	This error indicates that the data store's allocation structures are full. Try freeing any items possible and/or compacting the data store, using <b>ttCompact</b> , and retrying the operation. Disconnecting all connections and reconnecting may also free up some space.
810	Pointer does not reference the data store	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
812	Platform not supported <platform>	Some of the characteristics of your machine (e.g., alignments, type sizes) do not match the expected values. Check that you have installed the correct release of TimesTen appropriately. If the error persists, contact TimesTen <a href="#">Technical Support</a> .
814	Size specified by '<attribute>' connection attribute is less than the minimum size of <megabyte_count> megabytes	During a data store creation operation, the initial size of either the <b>PermSize</b> or <b>TempSize</b> attribute was less than the allowed minimum. Increase the value of the attribute to at least the minimum indicated size.
817	Internal error - TimesTen initialization failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
818	Sum of permanent and temporary partition sizes exceeds maximum size allowed on this platform	During a data store creation operation, the initial total size exceeded the maximum.
819	Data store not compatible with library <library>	An attempt was made to connect to a data store whose release is not recognized by the current release of TimesTen. Data store must be upgraded to current release.

Error number	Error or warning message	Details
820	Cannot destroy data store logs	Unable to remove the data store logs because of an operating system error, such as “File in use.”
821	No readable checkpoint files	An attempt was made to connect to a data store that has been deleted. Consider connecting with <b>Overwrite=1</b> to create a new data store.
823	Compact operation not fully completed	This warning is issued when a compaction operation is unable to complete. Additional errors that are pushed should indicate the reason for the failure. For example, the failure could be caused by an out-of-disk error.
824	Error information lost. Routine was at step <number>	The operation failed, but error information was lost. Please contact TimesTen, Technical Support regarding this lost error information.
826	Temporary data store exists but is unattached	Attempting to connect to a temporary data store ( <b>Temporary</b> attribute set) that is not connected to an application process and should have been automatically destroyed. Try explicitly destroying the data store (see <b>ttDestroy</b> ) or setting the <b>AutoCreate</b> and <b>Overwrite</b> attributes to overwrite the data store.
827	Bad options: With no logging , DurableCommits and LogPurge must be off and DSLevelLocking must be on (LockLevel set to 1)	If <b>Logging</b> to disk is off, then data store level locking must be on ( <b>LockLevel=1</b> ), the <b>DurableCommits</b> and <b>LogPurge</b> attributes must be off.
829	Bad options: Cannot copy logging options if first connection	The copy logging options must be off if creating a data store or establishing the first connection to the data store.
830	Cannot create data store file. OS-detected error: <error_text>	Unable to remove existing data store during a data store creation operation with overwrite ( <b>Overwrite</b> attribute set) or unable to create the data store checkpoint file because of an operating system error such as file system permission problems.



Error number	Error or warning message	Details
831	Cannot change mode on data store file, error <error_text>	Unable to change the permissions on the data store file during a data store creation operation because of an operating system error such as file system permission problems.
832	Cannot open data store file for reading. OS-detected error: <error_details>	Unable to open the data store file for reading during a data store connection operation because of an operating system error such as file system permission problems.
833	Data store <data_store_name> not found	Warning: attempting to connect to or destroy a data store that does not exist.
834	Data store file invalid or corrupted	During recovery or a data store connection operation the data store file was found to be corrupted. Contact TimesTen <a href="#">Technical Support</a> .
835	Data store file <file_name> reflects unfinished checkpoint	Unable to recover from the specified data store file because the file is incomplete. This generally indicates that either the application failed when writing the checkpoint or that there was not sufficient disk space to store the checkpoint. See the <a href="#">Oracle TimesTen In-Memory Database Operations Guide</a> for information on preventing disk space shortage. Generally a connection is still possible when you receive this error because TimesTen saves two different checkpoints.
836	Cannot create data store shared memory segment, error <error_number>	Unable to create a shared memory segment during a data store creation or data store connection operation. The data store may have been invalidated and some applications may still be connected to it. The shared memory segment cannot be freed until all applications disconnect from the corresponding data store. See "Installation prerequisites" in the <a href="#">Oracle TimesTen In-Memory Database Installation Guide</a> .

Error number	Error or warning message	Details
837	Cannot attach data store shared memory segment, error <error_number>	<p>Unable to attach to a shared memory segment during a data store creation or data store connection operation.</p> <p>You will receive this error if a process cannot attach to the shared memory segment for the data store.</p> <p>On UNIX or Linux systems, the <code>shmat</code> call can fail due to one of:</p> <ul style="list-style-type: none"> <li>- The application does not have access to the shared memory segment. In this case the system error code is <code>EACCESS</code>.</li> <li>- The system cannot allocate memory to keep track of the allocation, or there is not enough data space to fit the segment. In this case the system error code is <code>ENOMEM</code>.</li> <li>- The attach exceeds the system limit on the number of shared memory segments for the process. In this case the system error code is <code>EMFILE</code>.</li> </ul> <p>It is possible that some UNIX or Linux systems will have additional possible causes for the error. The <code>shmat</code> man page lists the possibilities.</p> <p>On Windows systems, the error could occur because of one of these reasons:</p> <ul style="list-style-type: none"> <li>- Access denied</li> <li>- The system has no handles available.</li> <li>- The segment cannot be fit into the data section.</li> </ul>
838	Cannot get data store shared memory segment, error <error_number>	<p>Unable to access a shared memory segment during a data store creation or data store connection operation.</p>
839	Cannot access data store because it is in use. A data store may be considered to be in use due to its RAM Policy setting, even though there are no active connections to it.	<p>Operation cannot be performed until other connections have finished. If <b>Overwrite=1</b>, consider setting it to zero.</p>

Error number	Error or warning message	Details
840	Cannot allocate space <byte_count> for non-shared data store	<p>Unable to allocate memory for the data store header of a non-sharable data store during a data store creation or data store connection operation. Not enough available swap space or physical memory.</p> <p>On HP, Sun and IBM systems the data space limit may be increased with the command <code>/usr/bin/ulimit -d n</code></p> <p>This command is built in some shells, in which case the shell may take precedence.</p> <p>For <code>csh</code> and <code>tcsh</code>:</p> <pre>limit datasize n</pre> <p>For <code>bash</code>:</p> <pre>ulimit -d &lt;n&gt;</pre> <p>For <code>ksh</code>, <code>zsh</code> and <code>posix</code> shells (<code>sh</code> or <code>sh-posix</code>):</p> <pre>ulimit -d n</pre> <p># this is kbytes</p> <p>Bourne shells (<code>sh</code> or <code>sh-bourne</code>) have no built-in but may fall back on <code>/usr/bin/ulimit</code>.</p>
841	Cannot detach data store shared memory segment, error <error_number>	Warning: unable to detach a shared memory segment during a disconnect from data store operation.
842	Invalid data store identifier	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
843	<query/feature> is not supported	The requested type of query is not supported.
844	Cannot write data store file <file_name>. OS-detected error: <error_details>	Unable to write to the data store file during creation of a data store or initiation of a checkpoint, most likely due to a lack of disk space.
845	Cannot read data store file. OS-detected error: <error_details>	Unable to read the data store file during a data store connection operation.
846	Data store connection invalid or not current	To execute the current operation, an existing valid data store connection was expected but not detected.

Error number	Error or warning message	Details
847	Cannot open data store file for writing. OS-detected error: <error_details>	Unable to open a data store file for writing during an initiation of a checkpoint because of an operating system error such as file system permission problems.
848	Recovery failed on <number> sets of data store files; user error log has more information	Recovery was performed on one or more checkpoint files and failed. The user error log contains warning messages that indicate where the problem occurred. Contact <a href="#">TimesTen Technical Support</a> .
849	Recovery failed on <number> sets of data store files; try connecting with a larger data store size	Recovery was performed on one or more checkpoint files and failed. During recovery, the data store ran out of space. The most likely reason is that the data store was very full when the application exited. If you increase the <a href="#">PermSize</a> attribute and try reconnecting, more space will be available for recovery. If this does not help, contact <a href="#">TimesTen Technical Support</a> .
850	Application has existing connection to data store	Unable to create, connect to or destroy a data store because the application has an existing connection to the data store.
851	Cannot destroy data store file	Warning: unable to destroy the data store file during a data store connection or destroy data store operation because of an operating system error such as file system permission problems.
852	Unable to lock data store memory segment, error <error_number> ...continuing with connection...	<p>The system was unable to lock memory, but the error was ignored as per the <a href="#">MemoryLock</a> attribute value.</p> <p><b>1</b> - indicates that the daemon was started by a user other than the instance administrator. Restart the daemon as the instance administrator.</p> <p><b>12</b> - indicates there was not enough lockable memory available on the system. Add more real memory, delete other memory-consuming processes or connect with a different value for the <a href="#">MemoryLock</a> attribute.</p>

Error number	Error or warning message	Details
853	Operation requires logging to disk	Unable to roll back transactions or use row-level locking in a non-logging data store. Connect with logging to disk or do not use this operation.
854	Data store <data_store_name> already exists	Unable to create a data store because it already exists. Either use <b>ttDestroy</b> to destroy the existing data store or connect with the <b>Overwrite</b> attribute set.
855	Top level heap not defined	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
857	Invalid flags for heap creation	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
860	Invalid savepoint	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
862	Number of active transactions exceeds the maximum	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
863	Operation requires an active transaction	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
864	Operation prohibited with an active transaction	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
865	Cannot destroy log file <file_name>. OS-detected error: <error_details>	Unable to destroy the log file during a data store creation, data store connection or destroy data store operation because of an operating system error.
866	Cannot close file. OS-detected error <error_details>	While attempting to flush file buffers to disk, the operating system encountered an error.
867	Cannot flush file buffers to disk. OS-detected error <error_details>	While attempting to flush file buffers to disk, the operating system encountered an error. Check the OS error message.
868	Cannot open directory <directory_name> for reading. OS-detected error <error_details>	While attempting to open the specified directory, the operating system encountered an error. Check the OS error message.

Error number	Error or warning message	Details
870	Cannot close data store shared memory segment, error <error_number>	Warning: Unable to close shared memory segment handle after detaching the segment.
871	Column <column_name> cannot be set to null	Cannot insert a NULL value into a non-nullable column or field. Check the input values and retry.
872	Length of inline columns (<value>) exceeds limit <maximum_value>	Length of the inline columns exceeds the maximum of 8,400. Decrease the number and/or length of the columns in the table (only length of non-variable types matters).
873	Length of inline row (<value>) exceeds limit <maximum_value>	Length of the inline row exceeds the maximum of 8,400. Decrease the number and/or length of the columns in the table (only length of non-variable types matters).
875	Invalid or missing column number in column descriptor	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
876	Overlapping columns in column descriptor	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
877	Misaligned columns in column descriptor	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
878	Invalid column number	Column number is not valid. Note that column numbers start at 1 (not 0). Internal error. Contact TimesTen <a href="#">Technical Support</a> .
879	Table <table_name> has existing primary index	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
880	Cannot create index; table has maximum of 32 indexes	A maximum of 32 indexes can exist on a given table. This includes both hash (primary key) and T-tree (range) indexes.
881	Hash key and primary key columns must be identical	For a hash table, the columns of the hash key must be the same as the columns of the primary key.
882	Primary index must be unique	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
883	Index has open cursors	Cannot insert into, delete from or destroy an index that has open cursors on it.
884	Invalid hash index	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
885	Invalid T-tree index	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
886	Index operation unsupported	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
887	Table has no primary index	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
888	Tail log truncated at position n.n. (where n is a long integer)	Recovery was unable to read the log past the given LSN. The log was truncated at that point to allow recovery to continue. The original, pre-truncated log file should be found in a directory called <code>savedLogFiles</code> , which should be a subdirectory of the data store's log directory.
889	Number of log files exceeded the maximum	Cannot create a log file because the number of log files that currently exists is at the maximum of 9,999. Roll back and perform a checkpoint. See " <a href="#">Checkpoints</a> " in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
890	Log file name too long	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
891	Log file <file_name> already exists	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
892	Cannot create log file. OS-detected error: <error_details>	While attempting to create a log file, the operating system encountered an error such as file system permission problems.
893	Cannot open log file <file_name>. OS-detected error: <error_details>	While attempting to open a log file, the operating system encountered an error such as file system permission problems.
894	Cannot write log file <file_name>. OS-detected error: <error_details>	While attempting to write to a log file, the operating system encountered an error such as file system permission problems.

Error number	Error or warning message	Details
895	Cannot close log file. OS-detected error: <error_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
896	Cannot read log file <file_name>. OS-detected error: <error_details>	While attempting to read from a log file, the operating system encountered an error such as file system permission problems.
897	Cannot seek in log file. OS-detected error <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
898	Log record exceeds maximum size of log file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
899	Log buffer size is smaller than minimum size of <minimum_size> KB	Change the log buffer size to a valid size, using the <a href="#">LogBuffSize</a> attribute. To see the current value of the log buffer size, use the <a href="#">ttConfiguration</a> built-in procedure. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
900	Cannot generate temporary file name	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
901	Cannot create file <file_name> for reclaim records: OS-detected error: <error_details>	Unable to create a temporary file to be used to spool the headers of reclaimed log records.



Error number	Error or warning message	Details
902	Cannot write file <file_name> for reclaim records: OS-detected error: <error_details>	Unable to write to the temporary file used to spool the headers of reclaimed log records. Make sure there is enough space on the disk where your temporary directory resides or change the location of your temporary directory by setting the TMP environment variable on Windows or the TMPDIR environment variable on UNIX. To avoid writing this file all together, each transaction should limit the number of deleted rows, deleted varying-length data and updated varying-length data. In particular, the total of (number of deletes) + (number of deletes to varying-length data) + (number of updates to varying-length data) should be limited to 90, to avoid writing to this file.
903	Cannot seek in file <file_name> for reclaim records: OS-detected error: <error_details>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
904	Cannot read file <file_name> for reclaim records: OS-detected error: <error_details>	Unable to read the temporary file used to spool the headers of reclaimed log records.
905	Invalid index identifier	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
906	Cannot change mode on logfile <file_name>, error <error_details>	While attempting to change file mode access permissions on the log file, the operating system encountered an error.
907	Unique constraint <constraint> violated at Rowid <row_number>	There are duplicate values in the primary key column(s) of a table or in the column(s) of a unique index. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
908	Key not found in table or index	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
909	Cannot update primary key or hash key	Cannot update values in the primary key columns or hash key columns of a table.

Error number	Error or warning message	Details
910	Row has already been deleted	A transaction is trying to delete or update a row that it has already deleted.
911	Null or blank table name	During table creation, no name was provided for the table.
912	Row with id not found in table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
913	MaxCnt exceeds <limit>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
914	<table_name> is not a valid table name	The length of the table name exceeds its maximum of 30 characters.
916	Key column must be not-null	Cannot insert a NULL value into a key column.
917	Invalid column number for key	The column number of the table that is specified as a key column is invalid.
918	Key column count is zero or greater than the number of table columns	The number of key columns is either zero or exceeds the number of columns in the table.
919	Invalid comparison condition	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
920	Invalid default value for column <column_name>	The specified default value is not a constant or one of the allowed values, NULL was specified for a non-nullable column or the default data type is not compatible with that of the column. For details, see " <a href="#">Column Definition</a> " in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
921	Unsupported column type	Data type is recognized by the parser but is not currently supported.
922	Invalid row identifier	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
923	Invalid row implementation	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
924	Row implementation unsupported for operation	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
925	Cannot create data store semaphores	Unable to create a semaphore during a data store creation or data store connection operation. This error usually indicates that your system was not tuned for TimesTen. See the " <a href="#">Installation prerequisites</a> " section of the <i>TimesTen Installation Guide</i> for more details.
926	Cannot create data store latch <error_number>	On Windows, there is a shortage of system resources such as “named events.” End any stray processes that are running. If that does not help, reboot the system. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
927	Cannot open data store latch <error_number>	On Windows, there is a shortage of system resources such as “named events.” End any stray processes that are running. If that does not help, reboot the system. If the problem persists contact TimesTen <a href="#">Technical Support</a> .
928	Error in semaphore operation <error_number>	An operating system semaphore operation failed. Contact TimesTen <a href="#">Technical Support</a> with the error number.
929	Logging attributes specified for connection are incompatible with existing connections.	The <a href="#">Logging</a> attributes provided to a data store connection operation were incompatible with the <a href="#">Logging</a> attributes currently in effect for existing connections. Change the <a href="#">Logging</a> attributes to be the same or use the <a href="#">MatchLogOpts</a> attribute. See the <i>TimesTen Developer's Guide</i> for valid combinations.
931	Data store has maximum number of connections	Unable to create a connection to the data store because the current number of connections is at the maximum of 2047.
932	Invalid column name: <string>	The specified column name is invalid. The <string> in the error message gives more information about the specific problem and/or column name involved.
933	Invalid SQL string	SQL string is NULL.

Error number	Error or warning message	Details
934	Invalid binary string	An SQL statement has a binary string constant that is larger than 20,000 characters. To get around this limitation, specify the binary value as a parameter. Then, it can be bound to a program variable of arbitrary length.
935	SQL statement must return a result	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
936	SQL statement may return multiple results	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
937	Invalid compiled command number	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
938	SQL statement has arguments	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
939	SQL statement has no arguments	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
940	SQL command has too many results	A maximum of 32,767 projected expressions are allowed for a single <a href="#">SELECT</a> statement. This includes all columns referenced indirectly by any * expressions.
941	Execution of operation not possible -- dependent object (e.g. command or index) is in use.	The application is currently scanning the table or a corresponding index, so it cannot perform operations such as creating an index, dropping the table or dropping an index. The application must wait until scanning is complete.
942	Imprecise numeric coercion	Warning: unable to convert a numeric value from one type to another without losing precision.
943	MaxTups argument must be positive	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
946	SQL command is no longer valid	The command has been invalidated. This may happen as the result of some DDL operations, such as <a href="#">ALTER TABLE</a> . The command should be prepared again.

Error number	Error or warning message	Details
947	Cannot generate log file name	A failure occurred generating a name for the log file. Additional errors are returned indicating the reason for this failure.
948	Read log buffer size specified is too small or too large	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
950	Invalid format width	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
951	Invalid float precision	The precision of a float type cannot be negative.
952	Null string too long - value will be truncated	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
954	SQL command has mismatched version number	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
955	Current Connections attribute setting (<setting>) exceeded by this connection. For optimal performance, configure Connections attribute higher.	The maximum number of connections allowed per data store is determined by the <a href="#">Connections</a> attribute. TimesTen supports between 1 and 2047 connections per data store.
960	String exceeds column width for column <column_name> - value will be truncated	Warning: attempting to insert a string into a character or binary column that is larger than the column's maximum length. The string will be truncated.
962	Bad value for <parameter>	While calling an API function, an invalid value was provided to a particular parameter. Internal error. Contact TimesTen <a href="#">Technical Support</a> .
963	Internal error writing checkpoint log record	During a checkpoint, an error was encountered when writing the checkpoint log record. Internal error. Contact TimesTen <a href="#">Technical Support</a> .
964	Internal error truncating log	During a checkpoint, an error was encountered when truncating the log. Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
965	Specified join order is not applicable - valid join orders will be considered	Warning: the specified join order is not applicable and will be ignored. All valid join orders will be considered.
966	Join string too long - join order not changed	Warning: the length of the specified join order exceeds the maximum of 1,024, and will be ignored. All valid join orders will be considered.
967	Bad join string - join order not changed	The join order set by <b>ttOptSetOrder</b> built-in either has incorrect format and therefore will be ignored. The correct format is a list of table names separated by spaces.
968	Invalid index usage specification	The index usage string provided to the <b>ttOptUseIndex</b> built-in procedure has a syntax error.
969	Index string too long - default index usage will be used	The index usage string provided to the <b>ttOptUseIndex</b> built-in procedure is too long.
970	Invalid cursor handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
971	Supplied buffer too small	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
972	Invalid data store handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
973	Invalid savepoint handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
974	Invalid format handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
975	Invalid table handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
976	Invalid index handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
977	Invalid row handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
978	Invalid command handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
979	Invalid command argument handle	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
980	Input buffer not properly aligned	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
981	Invalid cursor type (R/W)	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
982	String exceeds column width <column width>	This error happens when an application inserts a string value into a column that has a declared length that is shorter than the inserted value.
983	Invalid index or table name <table_name> - default index usage will be used	The specified table or index was not found. The default index is used.
984	Cannot find index that matches <index_name>. This index usage specification will be ignored	The specified index was not found. No index specification is used.
985	Application cannot change statistics on statistics system tables	Statistics system tables are maintained by the system and cannot be changed by the application.
990	Invalid maxCnt value for table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
991	Quota exceeds maximum row count for table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
992	Number of table pages in use exceeds quota	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
993	Number of index pages in use exceeds quota	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
994	Data store connection terminated. Please reconnect	An unexpected error or abrupt disconnect (e.g., control-C) caused the connection to be terminated. The application can reconnect once all connections have disconnected. If this error was accompanied by other errors indicating an assertion or unexpected error from the engine, notify TimesTen <a href="#">Technical Support</a> .
995	Cannot destroy data store shared-memory segment, error <error_number>	This indicates a failed attempt to remove a shared memory segment. The OS-specific error code given in the message indicates the reason for this failure.
997	Data store path too long	The path to the data store files is too long. The maximum allowed is 256 characters.



## Errors 1000 - 1999

Error number	Error or warning message	Details
1000	Cannot set primary key columns to different values	Updating values in primary key columns is not supported.
1001	Syntax error in SQL statement	<p>The parser has detected a syntax error in the SQL statement.</p> <p>If your SQL syntax appears ok, check if you are using one of the TimesTen SQL reserved words listed in "<a href="#">Reserved Words</a>" in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i>. Add quotes around the suspected reserved word or use an alternate word as a test. If your SQL worked before upgrading to a new TimesTen release, this error is likely the result of a reserved word.</p>
1002	Identifier in SQL statement exceeds maximum length	The length of the identifier used in the SQL statement exceeds the maximum of 30.
1003	Newlines are not allowed in identifiers	Quoted identifiers in SQL strings may not contain newlines. Remove any newlines and retry the command.
1004	Identifier in SQL statement is zero-length	An identifier specified in the SQL statement is of zero length. For example, the following SQL (where the replication name is of zero length) will generate this error: <b>CREATE REPLICATION ELEMENT E1 MASTER REP1 SUBSCRIBER REP2</b>
1005	Identifier in SQL statement is all spaces	The identifier is all blank spaces. Spaces are not supported in identifiers. Provide a supported identifier and execute the SQL statement again.
1006	Identifier in SQL statement contains illegal non-ASCII characters	Identifiers (including delimited identifiers) can contain only characters from the ASCII character set. Other characters, such as native language characters, are not allowed in identifiers.

1017	Column number in ORDER BY clause must be greater than zero	When referencing a column by position in an ORDER BY clause, the column number must be greater than zero.
1022	Constant number is outside representable range	The specified constant value was outside the range of its type. Consult " <a href="#">Data Types</a> " in the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for information on the range of each type.
1024	Referenced table <table_name> not in FROM list	The referenced table or correlation name used to qualify a column name does not appear in the FROM list of the query.
1025	Number of column names in INSERT statement is not equal to number of values	The number of column names specified in the <b>INSERT</b> statement does not match the number of values specified in the VALUES clause.
1026	Column names must contain at least one character	The name of a column cannot be blank.
1027	Floating-point precision out of legal range	The precision of a FLOAT type must be between 1 and 53.
1032	Aggregate function cannot be nested	An aggregate function cannot be called within another aggregate function.
1033	Aggregate function cannot be specified in group by clause	An aggregate function cannot be called within a GROUP BY clause
1061	PRIMARY KEY syntax can only be used once in statement	A table can have at most one PRIMARY KEY column list or constraint.
1102	Stale table handle	A table has been altered during an operation.
1103	Error in converting sysdate to Timestamp	Error will only occur when trying to convert the system return time to TimesTen internal timestamp format.
1104	Unable to obtain current date and time for SYSDATE	Unable to get the time from the system specific call.
1106	Start num cannot be smaller than minVal or bigger than maxVal	Make sure that your starting number is within the range specified by the minimum and maximum values supplied for this operation.

1200	Invalid transaction ID was input	No such transaction exists in TimesTen.
1203	This transaction needs rollback since rollback was forced	This transaction has been rolled back via another connection. You must complete it by rolling it back

## Errors 2000 - 2999

Error number	Error or warning message	Details
2042	Column defined with interval data type is not supported	A column in the CREATE TABLE or ALTER TABLE statement was defined with an INTERVAL type. INTERVAL data type is not supported.
2043	Binary data exceeds column width for column <column_name> - value will be truncated	Warning: attempting to insert a string into a binary column that is larger than the column's maximum length. The string will be truncated.
2044	Binary data exceeds column width <width>	This error happens when an application inserts a binary value into a column that has a declared length that is shorter than the inserted value.
2206	Table <table_name> not found	The referenced table does not exist.
2207	Table <table_name> already exists	Attempting to create a table that already exists.
2208	Column <column_name> does not exist in table	The referenced column does not exist in the table
2209	Column <column_name> specified more than once	The referenced column is specified more than once in the statement.
2210	Column reference of <column_name> is ambiguous	A column reference without a table name qualification can be associated with more than one table.
2211	Referenced column <column_name> not found	The referenced column does not exist in the table.
2212	Named index not found in table	Attempting to drop an index that does not exist.
2213	Named index already exists on specified table	Attempting to create an index that already exists.
2214	Column cannot be named ROWID	ROWID is a reserved word and cannot be used in this context.

2215	Attempt to drop a primary key index	Primary keys can only be created in a <b>CREATE TABLE</b> statement. An attempt was made to drop a primary key. The primary key cannot be dropped.
2216	Index key length is long, lookup based on the indexed key may be slow	An attempt was made to create an index on column(s) having length of more than 4MB. This message warns that the lookup may be slowed down. Indexes can be up to the maximum key length.
2221	Duplicate column name found in insert list	A column was specified more than once in the <b>INSERT</b> column list.
2222	Index name is not unique	While attempting to drop an index, the index is indirectly referenced more than once.
2223	Named index does not exist	Attempting to reference an index that does not exist.
2230	View <view_name> not valid input to ttSize	A view name was specified to <b>ttSize</b> . You cannot pass a non materialized view to <b>ttSize</b> . Only tables, cache groups and materialized views are valid input.
2249	Duplicate column name found in update set list	A column was specified more than once in the SET column list of an <b>UPDATE</b> statement.
2250	New column name '<column_name>' duplicates existing column name	When altering a table, use a unique column name.
2286	Attempt to define constraint on column that does not exist	Attempting to create a <b>PRIMARY KEY</b> or <b>UNIQUE</b> constraint on a column that does not exist.
2294	<b>UNIQUE/PRIMARY KEY</b> column must specify <b>NOT NULL</b>	Columns referenced in a <b>PRIMARY KEY</b> or <b>UNIQUE</b> constraint cannot be nullable.
2295	Duplicate columns in primary key specification	The column list specified in the <b>PRIMARY KEY</b> or a <b>UNIQUE HASH</b> clause of a <b>CREATE TABLE</b> statement cannot contain duplicates. Remove them and retry the operation.
2376	Duplicate entries in FROM clause	A table was specified more than once in the FROM clause of a <b>SELECT</b> statement.

2377	Target table of insert cannot be in the from clause	When using <b>INSERT SELECT</b> , the table into which rows are to be inserted cannot also be referenced by the <b>SELECT</b> portion of the statement. Rewrite the statement and retry the operation.
2400	Number of columns <num> exceeds the maximum <num>	Attempting to create a table with more columns than the maximum limit of 1000.
2404	Number of primary key columns exceeds the maximum	Attempting to create a primary key containing more columns than the allowed maximum of 16.
2405	Number of index key columns exceeds the maximum	Attempting to create an index with more columns than the allowed maximum of 16.
2407	Length of column <column_name> exceeds maximum	Attempting to create a CHAR or BINARY column whose length exceeds 8,300 or a VARCHAR or VARBINARY column whose length exceeds its maximum of 4,1943,04.
2414	Length of column <column_name> below minimum	Attempting to create a CHAR, BINARY, VARCHAR or VARBINARY column whose length is less than 1.
2416	Number of hash key columns exceeds the maximum	Attempting to create a table containing more than the maximum primary key columns of 16.
2420	Number of values specified in INSERT statement exceeds number of columns in table	The number of values specified in the VALUES clause in the <b>INSERT</b> statement is greater than the number of columns in the table.
2421	Column number exceeds length of select list	When referencing a column by position in the ORDER BY clause, the column number must be less than or equal to the number of columns in the <b>SELECT</b> column list.
2430	Precision of decimal or numeric type is out of range	The specified precision of a DECIMAL or NUMERIC data type must be between 1 and 40.
2431	Scale of decimal or numeric type is out of range	The specified scale of a DECIMAL or NUMERIC data type must be greater than or equal to zero.

2432	Scale of decimal or numeric type must not be larger than precision	The specified scale of a DECIMAL or NUMERIC column cannot exceed the column's precision.
2433	Invalid fixed-point number provided	A fixed-point value can only contain items in the following order: a sign, digits (0-9), a decimal point and digits (0-9). The sign and decimal point are optional.
2434	Decimal overflow	The number of digits to the left of the decimal point exceeded the amount allowed based on the defined precision and scale.
2435	Decimal value exceeds scale - value will be truncated	Warning: The number of digits of the right of the decimal point exceeded the amount allowed based on the defined scale. The decimal value will be truncated.
2436	Decimal divided by zero	Attempting to divide a decimal value by zero.
2437	Decimal product cannot be represented; scale <scale_value> is greater than maximum of <maximum_value>	Multiplication of decimal values must preserve the full scale in a decimal product. If this is not possible, precision might be lost. In that case, this error is issued and the operation is canceled. Refer to the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for information on the maximum scale and precision of decimal values, and the scale and precision of the results of arithmetic operations on these values.
2438	Precision of decimal or numeric value is out of range	A decimal or numeric value must have between 1 and 40 digits, inclusive.
2439	Scale of decimal or numeric value is out of range	A decimal or numeric value must have between 0 and 40 digits to the right of the decimal point, inclusive.
2440	Value outside of range supported by decimal or floating point type	A decimal or numeric value must have between 0 and 40 digits to the right of the decimal point, inclusive.
2600	Integer overflow	The specified or calculated value is greater than the upper bound that the signed or unsigned integer type allows.
2602	Integer divide by zero	Attempting to divide an integer by zero.

2603	Extended precision overflow	The specified or calculated value is greater than the upper bound that the signed floating-point type allows.
2604	Extended precision divided by zero	The specified or calculated value is greater than the upper bound that the signed floating-point type allows.
2605	Extended precision underflow	The specified or calculated value is less than the lower bound that the signed floating-point type allows.
2606	Error converting from character string '<string>' to date	A CHAR or VARCHAR constant is not in correct format to be converted to DATE format. See "Data Types" in the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
2607	Error converting from character string '<string>' to time	A CHAR or VARCHAR constant is not in correct format to be converted to TIME format. See "Data Types" in the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
2608	Error converting from character string '<string>' to timestamp	A CHAR or VARCHAR constant is not in correct format to be converted to TIMESTAMP format. See "Data Types" in the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
2609	Incompatible types found in expression	Attempt to use an incompatible type in an expression. For example, using a boolean operator on a character string operand is an error.
2610	Operand data type <data_type> invalid for operator <operator>	Attempt to use an invalid operand data type with an operator. For example, using an integer operand with a LIKE relational operator is invalid.
2611	Error Converting date to character string	A DATE value of a TO_DATE function has an incorrect format. Refer to the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for the correct format of DATE values.
2612	Error Converting time to character string	A TIME value of a TO_DATE function has an incorrect format. Refer to the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for the correct format of TIME values.



2613	Error Converting timestamp to character string	A TIMESTAMP value of a TO_DATE function has an incorrect format. Refer to the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for the correct format of TIMESTAMP values.
2614	Value outside of range supported by integral type	A data type conversion caused an overflow. Refer to "Data Types" in <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for information about the maximum values for each integer data type, and consider using one that permits larger values.
2616	Error converting Oracle date to TT_TIMESTAMP	The requested data type conversion is not supported. Refer to "Data Types" in <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for information supported conversions. If the problem persists, contact TimesTen Technical Support.
2617	Error converting Oracle date to Oracle timestamp	The requested data type conversion is not supported. Refer to "Data Types" in <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for information supported conversions. If the problem persists, contact TimesTen Technical Support.
2618	Error converting Oracle timestamp to TT_TIMESTAMP	The requested data type conversion is not supported. Refer to "Data Types" in <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for information supported conversions. If the problem persists, contact TimesTen Technical Support.
2619	Error converting Oracle timestamp to Oracle date	The requested data type conversion is not supported. Refer to "Data Types" in <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for information supported conversions. If the problem persists, contact TimesTen Technical Support.

2620	Error converting TT_TIMESTAMP to Oracle date	The requested data type conversion is not supported. Refer to <a href="#">"Data Types"</a> in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for information supported conversions. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
2621	Error converting TT_TIMESTAMP to Oracle timestamp	The requested data type conversion is not supported. Refer to <a href="#">"Data Types"</a> in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for information supported conversions. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
2622	Format string in <string> must be a string literal	You cannot use an expression when specifying a format string. The format string must be a string literal.
2705	Column <column_name> in select expression not in group by list	All simple columns (not aggregate or expressions) referenced in the <a href="#">SELECT</a> column list or the HAVING clause must appear in the GROUP BY column list.
2706	<query> not in select distinct list	The query contained both an ORDER BY and a DISTINCT clause, however the column that is to be ordered did not appear in the projection list.
2712	Attempt to update primary key column(s)	Cannot update values in the primary key columns of a table.
2764	DISTINCT within aggregate function cannot reference expression	Within an aggregate function, the DISTINCT operator can only reference a simple column and not an expression.
2765	Invalid use of aggregate function	The aggregate function is being used improperly. For example, an aggregate function cannot be used in the SET clause of an <a href="#">UPDATE</a> statement.
2774	Invalid character following escape character	Escape character must be followed either by a wildcard character or by the escape character itself.
2775	Invalid ESCAPE clause in LIKE expression	An invalid escape clause was found within the LIKE expression.

2776	Both arguments of binary operation cannot be parameters	In a binary operation, both operands cannot be argument references like dynamic parameters.
2777	Argument of unary operation cannot be parameter	In a unary operation or aggregate, the operand cannot be an argument reference like a dynamic parameter.
2778	Cannot infer type of parameter from its use	The operator requires operands of a specific type. TimesTen cannot determine whether the dynamic parameter used as one of the operands is of the appropriate type. For example, providing dynamic parameters to the LIKE operator does not guarantee that the operands will be character types.
2779	Value length is inconsistent with type length	The routine to set column statistics takes VARBINARY values as input. A VARBINARY value has been specified that does not have the correct length of the column. Check this length and provide an appropriate VARBINARY value.
2781	Pages value must be a positive value	A negative value has been specified for PAGES. Change the value to a positive value.
2783	Alter table to set new pages value is valid only if the table has a hash index	You must set a hash value on the table to include the SET PAGES clause in an ALTER TABLE statement.
2784	Column <column_name> has no default value defined	Default value clause was used in an <b>INSERT</b> or an <b>UPDATE</b> statement with a non-nullable column where no default value had been defined.
2785	Column <column_name> has no unique constraint	<b>ALTER TABLE</b> to drop UNIQUE constraint was executed on a column with no UNIQUE constraint.
2786	Column <column_name> already has unique constraint	<b>ALTER TABLE</b> to add a UNIQUE constraint on a column which already has a UNIQUE constraint.

2787	DateTime arithmetic error	A datetime operation results in an invalid DATE, TIME or TIMESTAMP. For example, the resulting HOUR is not in the range 0..23 (inclusive), the resulting MONTH is not in the range 0..12, or the resulting DAY is invalid like 'Feb 30' or 'Jan 32'.
2788	Value too big for the interval type	Interval constant is too big or conversion from one interval type to the other results in a value that is too large.
2789	An interval data type must be specified for a datetime arithmetic result	Casting to interval type was not specified for a datetime subtraction and this type cannot be inferred from the context.
2790	Cannot infer type of case expression from its use	All resulted expressions are arguments without a CAST operator and the data type cannot be inferred from the context.
2791	The FROM clause of a join update statement must include the updated table	The updated table was not specified in the FROM clause.
2792	All updated columns must belong to updated table	The SET clause of a join UPDATE was used to update a table different from the updated table.
2794	Argument <argument_name> is out of range	The specified <i>n</i> value of an INSTR function is less than or equal to zero. The value must be positive and greater than 0.
2795	"<column_name> not in the select list of the first select	Only column name of tables or column alias in the left most SELECT can be specified in the ORDER BY clause.
2796	ON COMMIT option is only support with temporary table	ON COMMIT option was specified with a permanent table.
2797	First two arguments of INSTR operation cannot be both parameters with undefined type; please use CAST operator to define data type for parameters	Both expressions of an INSTR are arguments with no defined type.

2798	First argument of SUBSTR operation cannot be parameter with undefined type; please use CAST operator to define data type for parameter	First argument of SUBSTR has no defined type.
2803	Only one unique value for NLS_SORT is allowed for an index and all character type fields must be specified with that NLS_SORT	<p>You must use the same NLS_SORT value for all character type columns in a linguistic index. For example, the following statement is not allowed:</p> <pre>CREATE INDEX i1 ON t1 (NLSSORT(c1, 'NLS_SORT=french'), NLSSORT(c2, 'NLS_SORT=german'));</pre> <p>Use one of the multi-lingual sorts instead or create separate indexes for each NLS_SORT value if needed.</p>
2804	NLS parameter for linguistic index must be a constant string	<p>The NLS_SORT parameter to the NLSSORT function in a linguistic index definition must be a constant, as in:</p> <pre>CREATE INDEX i1 ON t1 (NLSSORT(c1, 'NLS_SORT=french'));</pre>
2806	Invalid NLS parameter for NLSSORT function '<sort_value>'	<p>The NLS_SORT value supplied to the NLSSORT function is invalid. It may be a sort that is unsupported or unknown to TimesTen or there may be a problem with the syntax, which must be of the form NLS_SORT=sort</p> <p>For example:</p> <pre>CREATE INDEX i1 ON t1(NLSSORT(c1, 'NLS_SORT=bogus'));</pre> <p>Returns</p> <p>2806: Invalid NLS parameter for NLSSORT function 'NLS_SORT=bogus'</p>
2809	Invalid interval	The string specified in interval literal, thus INTERVAL 'string' is of an illegal format.

2811	Not a group by expression	<p>The user try to use a non-aggregate expression which is not in the group by list of a group by query. Within a group by query, all column references must be either inside an aggregate function or on the group by list. For example, the following query triggers this error:</p> <pre>CREATE TABLE t1(c1 INT); SELECT c1+1 FROM t1 GROUP BY c1+2; /* incorrect */</pre> <p>should be</p> <pre>SELECT c1+1 FROM t1 GROUP BY c1+1; /* the expression is on the GROUP BY list */</pre> <p>or</p> <pre>SELECT c1+1 FROM t1 GROUP BY c1 /* the column is on the GROUP BY list */</pre>
2812	Error converting from character string <string> to Oracle date	Could not convert the specified char string to an Oracle date.
2813	Error converting from character string <string> to oracle timestamp	Could not convert the specified char string to an Oracle timestamp. Check the string type and make sure that the result type does not result in an overflow or underflow.
2903	Illegal character <character> in SQL statement	A SQL statement contains a character not acceptable in SQL outside of a string constant. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2904	Invalid element <element> in number format	An invalid element was found in the format of a TO_CHAR function. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2905	Invalid element <element> in date format	An invalid element was found in the format of a TO_CHAR or TO_DATE function. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2906	Bad number format	The format of TO_CHAR function is invalid. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .

2907	Bad date format	The format of TO_CHAR or TO_DATE function is invalid. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2908	Error converting decimal to character string	Error in converting a DECIMAL to CHAR for TO_CHAR function. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2909	Error converting numeric to character string	Error in converting an INTEGER or FLOAT to CHAR for TO_CHAR function. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2910	Float overflow for TO_CHAR function	The absolute FLOAT value of a TO_CHAR function is greater than 1e+126. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2911	Float underflow for TO_CHAR function	The absolute FLOAT value of a TO_CHAR function is less than 1e-126. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
2912	Invalid Unicode escape <"\u<string>"	TimesTen detected an improperly formed Unicode escape sequence. See the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> for a description of Unicode escape sequences.
2913	Invalid argument <argument_string> for NUMTODSINTERVAL function	The second argument of NUMTODSINTERVAL is not one of: 'DAY', 'HOUR', 'SECOND' or 'MINUTE'.
2914	Invalid argument <argument_string> for NUMTOYMINTERVAL function	The second argument of NUMTOYMINTERVAL is not one of: 'YEAR' or 'MONTH'.
2915	Too many values in the subquery of the set clause	In the set clause of a join update, the subquery specifies more values than the updated column list.
2916	Not enough values in the subquery of the set clause	In the set clause of a join update, the subquery specifies fewer values than the updated column list.

2917	Invalid extract field for extract source	An attempt was made to extract an incompatible field from a value, for example extracting a YEAR field from an interval DAY to SECOND.
2918	Precision of number type is out of range [1,38]	The NUMBER type precision can be between 1 and 38. It is currently out of range. Check the string type and make sure that the result type does not result in an overflow or underflow.
2919	Scale of number type is out of range [-84,127]	The NUMBER type scale can be between -84 and 127. It is currently out of range. Check the string type and make sure that the result type does not result in an overflow or underflow.
2920	Number type arithmetic overflow	The result of the arithmetic operation was too large for the result type, based on the precision and scale of the NUMBER.
2921	Number type arithmetic underflow	This is a warning. The result of the arithmetic operation was too small for the result type, based on the precision and scale of the NUMBER. The result was rounded to 0.
2922	Invalid number type value	An operand to an arithmetic operation was not a valid number. Specify a valid number type.
2923	Number type value overflow	The value of a NUMBER was too large for the type of the variable.
2924	Number type value underflow	This is a warning. The value of a NUMBER was too small for the type of the variable. The result value was rounded to zero.
2925	Number overflow for TO_CHAR function	A NUMBER parameter to the TO_CHAR function was too large to be converted.
2926	Number underflow for TO_CHAR function	This is a warning. A NUMBER parameter to the TO_CHAR function was too small to be converted. The result value was rounded to zero.
2927	Error converting Number to Char	The NUMBER could not be converted to a character type. Check the string type and make sure that the result type does not result in an overflow or underflow.



2928	Error converting Char to Number	The character string could not be converted to a NUMBER. Check the string type and make sure that the result type does not result in an overflow or underflow.
2929	Error converting Number to Double	A NUMBER value could not be converted to a DOUBLE. Check the string type and make sure that the result type does not result in an overflow or underflow.
2930	Error converting Number to Float	Check the string type and make sure that the result type does not result in an overflow or underflow.
2931	Overflow converting Number to TinyInt	A NUMBER value was too large to be converted to a TINYINT.
2932	Underflow converting Number to TinyInt	A NUMBER value was too small to be converted to a TINYINT. This is a warning. The result value was rounded to zero.
2933	Error converting Number to TinyInt	A NUMBER value was too small to be converted to a TINYINT.
2934	Overflow converting Number to SmallInt	A NUMBER value was too large to be converted to a SMALLINT.
2935	Underflow converting Number to SmallInt	A NUMBER value was too small to be converted to a SMALLINT. This is a warning. The result value was rounded to zero.
2936	Error converting Number to SmallInt	A NUMBER value was too small to be converted to a SMALLINT.
2937	Overflow converting Number to Int	A NUMBER value was too large to be converted to a INT.
2938	Underflow converting Number to Int	A NUMBER value was too small to be converted to a INT. This is a warning. The result value was rounded to zero.
2939	Error converting Number to Int	A NUMBER value was too small to be converted to a INT.
2940	Overflow converting Number to BigInt	A NUMBER value was too large to be converted to a BIGINT.

2941	Underflow converting Number to BigInt	A NUMBER value was too small to be converted to a BIGINT. This is a warning. The result value was rounded to zero.
2942	Error converting Number to BigInt	A NUMBER value was too small to be converted to a BIGINT.
2943	Error truncating a date	This is a warning. The date could not be truncated.
2944	Invalid number format model	The format string does not represent a valid NUMBER. Specify a valid NUMBER format.
2945	Truncation occurred during Number conversion	This is a warning. The number could not be truncated.
2947	Error converting Number to Char: result buffer is <num> bytes, conversion requires <num> bytes	The number-to-char conversion requires more bytes than the size of the buffer provided for the conversion. The application can fix this problem by passing in a larger buffer.
2948	Bad format string '<string>'	Specify a valid string format.
2950	Merge may not update a row more than once, but the row at rowid <ID> matched at least two source rows	More than one row in the source table matches the same row in the target table. But the target table row cannot be updated more than once in one MERGE operation.
2951	The table being merged into cannot be used for insert values	You cannot insert values from target table columns.
2952	Source table <table_name> cannot be updated	MERGE update columns cannot be used in the ON clause.
2953	Columns referenced in the ON Clause cannot be updated	MERGE update WHERE clause can refer to both source and target table, but only a target table can be updated.
2954	Columns referenced in update WHERE clause is not in either source or target table	The MERGE statement contains a column reference in the UPDATE WHERE clause that cannot be resolved. Please check to make sure the column exists in either the source or the target table of the MERGE.

2955	Column in insert whereclause is cannot refer to target table	The MERGE statement contains a column reference to the target table in its insert clause. This is not allowed.
2956	Column in insert whereclause is not in source table	The MERGE statement contains a column reference in the UPDATE WHERE clause that cannot be resolved. Please check to make sure the column exists in the source table of the MERGE.
2957	Bad insert value	If the application inserts a value such as COUNT(*) and TimesTen does not know to which table it refers, the MERGE operation fails. Avoid using an aggregate function as an INSERT value.
2960	Scale of timestamp type is out of range [0,9]	A TIMESTAMP can only have a scale in the range 0..9. Any other specified scale value is out of range.
2970	Decode syntax error: not enough operands	A DECODE operation must have at least 3 arguments.
2971	Coalesce syntax error: need at least two operands	A COALESCE operation must have at least 2 arguments.
2972	Invalid relational operator: all group of values in the value list must have the same number of values as the left operand	<p>This problem occurs when the relational operator ANY or IN is specified with more than one value in the left operand and the right operand is a list of constant sets where some set has a different number of value than the number of values in the left operand. For example:</p> <pre>SELECT * FROM t1 WHERE (x1,y1) IN ((1,1), (2));</pre> <p>In this example, the error is returned because the second set of values in the IN list contains only one entry instead of the correct number of 2. The remedy is to add the missing value.</p>

2973	Invalid relation operator: subquery does not project same number of columns as specified in the left operand	<p>This problem occurs when the relational operator ANY or IN is specified where the right operand is a subquery and the select list of this subquery specifies fewer or more values than the left operands. For example:</p> <pre>SELECT * FROM t1 WHERE (x1,y1) IN (SELECT x2 FROM t2);</pre> <p>In this example, the error is returned because the second set of values in the IN list contains only one entry instead of the correct number of 2. The remedy is to add the missing value.</p>
2974	Using rownum to restrict number of rows returned cannot be combined with first N or rows M to N	ROWNUM cannot be used in the same query as either FIRST N or ROWS M to N operators.
2975	Number divide by zero	Performing an arithmetic operation with numbers resulted in a divide-by-zero error.
2978	Transparent load value must be between 0 and 2	An invalid value has been supplied for the <b>TransparentLoad</b> attribute. Use 0, 1 or 2.
2979	Invalid relational operator	During parsing, an invalid relational operation was found.
2980	Cannot add aging policy to a table with an existing aging policy. Have to drop the old aging policy first.	Only one aging policy can be defined on a table at any time.
2981	Non existent column <column_name> specified for time-based aging	The column specified in the AGING USE clause of a CREATE TABLE statement does not exist.
2982	Column <column_name> specified for time-based aging is not a timestamp column	The column specified in the AGING USE clause of a CREATE TABLE statement must be of the type TIMESTAMP.
2983	Cannot drop aging or change aging attribute of a table with no aging policy	An attempt was made to DROP or change aging on a table that does not have an aging policy defined.
2984	LRU aging does not have the specified attribute	LRU aging must specify one of LowUsageThreshold, HighUsageThreshold or Aging cycle attributes.

2985	Cannot add aging policy to a materialized view table	Aging policy is not supported on a materialized view or its detail tables.
2986	Cannot add aging policy to a detail table of materialized view table	Aging policy is not supported on a materialized view or its detail tables.
2987	Cannot add aging policy to a temporary table	Aging policy is not supported on temporary tables.
2988	Cannot add aging policy to a non-root table of a cache group	LRU and time based aging cannot be specified on any non-root table in the cache group. Aging can only be specified on the root table.
2989	LRU aging policy is not allowed with autorefresh cache group	An LRU aging policy is not allowed with AUTOREFRESH cache group. Specify either time-based aging or no aging policy.
2990	Cannot change aging attributes or add/drop aging policy of autorefresh cache group while cache agent is active	To solve this problem, stop the cache agent, alter aging and then restart the cache agent.
2991	Cannot combine aging duration with other aging policy	The application has specified the duration aging and either time-based or LRU aging. DURATION is deprecated in this release and is only available for backward compatibility. Specify either time-based or LRU aging for this cache group.
2992	Cannot drop aging column	To drop a column used by time-based aging, you must first drop the aging policy.
2993	Aging column cannot be nullable	A column used by time-based aging are required to be specified as NOT NULL.
2994	Parent <parent_table> of table <child_name> has different agining policy: <aging_policy>	The parent and children tables involved in an aging definition must have the same policy.
2995	Child <child_table> of table <parent_table> has differnt aging policy: <aging_policy>	The parent and children tables involved in an aging definition must have the same policy.

2996	Cannot start aging on table without aging policy	To use aging, the table must be created with an aging policy.
2997	Transparent load cannot be used with passthrough 3	Transparent load is not supported with the passthrough policy specified as 3. You can prepare the statement with a passthrough value other than 3.
2998	Named constraint not found in table	An attempt was made to drop a foreign key that was not defined.

## Errors 3000 -3999

Error number	Error or warning message	Details
3000	There is no unique index on the referenced columns for foreign key defined on table <table_name>	A foreign key cannot reference any of the columns contained in the foreign key itself.
3001	Foreign key violation <index_name> parent key not found in table <table_name>;  (or)  Foreign key violation [<Index_name>]: the row at Rowid <rowid> in child table <table_name> has no key in the parent table <table_name>	The <a href="#">INSERT</a> , <a href="#">DELETE</a> or <a href="#">UPDATE</a> statement caused a foreign key constraint violation. See the "SQL Statements" chapter in the <a href="#">Oracle TimesTen In-Memory Database SQL Reference Guide</a> .
3002	Foreign key enforcement requires logging	The statement cannot be executed because data store <b>Logging</b> is off. <b>Logging</b> to disk or diskless <b>Logging</b> must be enabled.
3003	Table/Index is in use by a foreign key	The table or index cannot be dropped or modified because it is referenced by a foreign key constraint.
3004	Foreign key column type mismatch	The foreign key columns do not match the primary key columns in number, type, length, precision or scale.
3005	There is no unique index on the referenced columns for foreign key defined on table <table_name>	The foreign key constraint requires a primary or unique index on the referenced columns of the referenced table.
3006	System/Cached tables cannot be referenced by a foreign key	Cannot create a foreign key on any system or cache tables or referencing any system tables.
3007	Both foreign key function arguments are nulls	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

3008	Scalar subquery returned more than one row	A scalar subquery may return at most one row. Refer to the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for an explanation of scalar subqueries.
3009	Dropping an index used to enforce unique column constraint is not allowed	A DROP INDEX statement was used to drop an index used to force a unique constraint. Use ALTER TABLE MODIFY to drop the unique constraint instead.
3011	Duplicate columns in foreign key specification	When defining a foreign key, duplicate column names were used. To avoid receiving this error, do not construct foreign key columns with duplicate names.
3014	Cascade and non-cascade foreign keys cannot be mixed on a table	For consistency, all foreign key constraint paths in a table or leading to a table must be specified as cascaded or not cascaded in a CREATE TABLE statement.
3015	Cascade and non-cascade foreign keys cannot be mixed on paths leading to a table	For consistency, all foreign key constraint paths in a table or leading to a table must be specified as cascaded or not cascaded in a CREATE TABLE statement.
3016	Cannot add a foreign key that makes two paths for a parent-child pair have different cascade delete action	For consistency, all foreign key constraint paths in a table or leading to a table must be specified as cascaded or not cascaded in a ALTER TABLE statement.
3017	Child table <table_name> of a cascade delete foreign key is not replicated while its parent table <table_name> is replicated	When a primary key table is included in a replication scheme, its corresponding foreign key table must included in the replication scheme, as well. This error is returned when an ON DELETE CASCADE operation is attempted on a foreign key table in a replication scheme, but the primary key table is not included in the replication scheme.
3018	Child table <table_name> of a foreign key is not replicated while its parent table <table_name> is replicated	A foreign key table in a primary key/foreign key relationship is not being replicated. Make sure both or neither of the tables is in the replication scheme.



3019	Parent table <table_name> of a cascade delete foreign key is not replicated while its child table <table_name> is replicated	When a primary key table is included in a replication scheme, its corresponding foreign key table must included in the replication scheme, as well. This error is returned when an ON DELETE CASCADE operation is attempted on a primary key table in a replication scheme, but the foreign key table is not included in the replication scheme.
3020	Parent table <table_name> of a foreign key is not replicated while its child table <table_name> is replicated	A primary key table in a primary key/foreign key relationship is not being replicated. Make sure both or neither of the tables is in the replication scheme.
3100	Outer join operator (+) not allowed in operand of OR or IN	The OUTER JOIN operator (+) was either used in a OR'd condition (for example: $x1 (+) = 1$ OR $x1 (+)$ FROM. . .) or in an IN condition (for example: $x1 (+)$ IN (1, 2, 3)). Neither of these uses are supported.
3101	Outer join operator (+) not allowed in select list, order by, or group by clause	The OUTER JOIN operator (+) was illegally used in a <b>SELECT</b> list (for example: <b>SELECT</b> $x1 (+)$ FROM. . .) or in an ORDER BY clause (for example: ORDER BY $x1 (+)$ ) or in a group BY clause (for example: GROUP BY $x1 (+)$ ). None of these uses are supported.
3102	A table may be outer joined with at most one outer table	A table was outer joined with more than one table. For example: $T1.X1(+) = T2.X2 + T3.X3$ OR $T1.Y1(+) = T3.Y3$ . Table T1 was outer joined with both T2 and T3. This is not supported.
3103	Two tables cannot be outer joined together	A cycle of OUTER JOIN was found where each table is both an inner and an outer table. For example: $T1.X1(+) = T2.X2$ AND $T3.X3(+) = T1.X1$ . This is not supported
3104	A predicate may reference only one outer-joined table	An OUTER JOIN condition illegally refers to more than one inner table. For example: $T1.X1(+) + T2.X2(+) = T3.X3$ . In this case, both tables T1 and T2 are inner tables. This is not supported
3105	Non-negative value needs to be passed for n in first n	The value passed for the "First n" clause was negative or zero. You must use a positive value

3106	FIRST keyword cannot be used in subquery	The FIRST keyword can only be used in the main query. TimesTen does not support the FIRST keyword in subqueries.
3107	N must be bigger or equal to M in 'Rows M to N' specification	In a <a href="#">SELECT</a> statement change the value of N to a value larger than M.
3108	Outer join operator (+) cannot be used in query that specifies joined table	Joined table and outer join specification using operator (+) cannot be both specified in the same query.

3110	Expression <expression> has no name	Supply an expression name and run the statement again. A name was not specified for a column in the select list of a CREATE VIEW statement.
3111	Column name <column> specified more than once	Each column in a table must have a unique name. Rename the column.
3112	Cannot drop view table <table_name>; please use DROP VIEW instead	The specified table is a view. Use the <a href="#">DROP VIEW</a> statement to drop this table.
3113	Cannot drop tables with defined materialized views: the view <view_name> refers to <table_name>	The detail table that you are attempting to drop has an associated view. You cannot drop a detail table without first dropping the view. See <a href="#">"Working with materialized views"</a> in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
3114	Cannot alter view tables	To alter a view, you must drop the table, using the <a href="#">DROP VIEW</a> statement and then create a new view, using the <a href="#">CREATE MATERIALIZED VIEW</a> statement. See <a href="#">"Working with materialized views"</a> in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
3115	Cannot drop columns referenced in materialized views	The specified column is referenced in a view. As long as the view exists, you cannot drop this column. See <a href="#">"Working with materialized views"</a> in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
3117	View SQL must be less than <number> bytes long	The view's <a href="#">SELECT</a> text is bigger than the maximum size of 400*1024 bytes.
3118	View <view_name> already exists	A <a href="#">CREATE MATERIALIZED VIEW</a> statement specified an existing view.
3119	More than <number> views reference table <table_name>	A <a href="#">CREATE MATERIALIZED VIEW</a> statement specified a detail table that already has 100 views referencing it.
3120	View <view_name> does not exist	A <a href="#">DROP VIEW</a> statement specified a non-existent view.

3121	A cache group table <table_name> cannot be referenced in a materialized view	A <a href="#">CREATE MATERIALIZED VIEW</a> statement specified a cache group table as a detail table. This is not supported.
3123	Foreign keys on view tables are not allowed	Foreign keys are not allowed to be defined on materialized views, only tables.
3124	Cannot create a view that references a system table	A <a href="#">CREATE MATERIALIZED VIEW</a> statement specified a system table as a detail table. This is not supported.
3125	View definition was too long. Could not store the definition in the system tables	An error occurred while creating a materialized view because some field was too long.
3127	View maintenance requires logging	A view's detail table was updated when logging was off. This is not supported. Turn on <a href="#">Logging</a> before updating a view's detail table.
3128	Invalid size of column name list	A column name list was specified for a derived table or non-materialized VIEW but its size does not match the number of projected columns.
3129	Invalid column name for view	Names in the column name list of a derived table or VIEW cannot have table name specification.
3130	Derived table name <table_name> is not unique among all based/viewed/derived table names	A derived table name must be unique among the names of all derived tables, base tables and views referenced in the same query.
3131	View <view_name> is not a materialized view; please use DROP VIEW instead	DROP MATERIALIZE VIEW statement was used to drop a nonmaterialized VIEW. See <a href="#">DROP VIEW</a> in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
3132	A materialized view cannot reference a regular view	A non-materialized view was referenced in the definition of a materialized view. See <a href="#">"DROP VIEW"</a> in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
3138	Cannot delete from a truncated table in an uncommitted transaction	An in-progress transaction is attempting to delete rows from a table that has already been truncated. To avoid this problem, commit the truncate transaction and then execute the DELETE operation.

3139	Cannot update from a truncated table in an uncommitted transaction	An in-progress transaction is attempting to update rows from a table that has already been truncated. To avoid this problem, commit the truncate transaction and then execute the UPDATE operation.
3140	Cannot alter to change hash page a truncated table in an uncommitted transaction	An in-progress transaction is attempting to alter the hash pages on a table that has already been truncated. To avoid this problem, commit the truncate transaction and then execute the ALTER operation.
3141	Cannot alter to add/drop column on a truncated table in an uncommitted transaction	An in-progress transaction is attempting to add or drop a column on a table that has already been truncated. To avoid this problem, commit the truncate transaction and then execute the DROP or ADD the column.
3142	User <username> already exists	This error occurs when adding an internal user. The user name already exists. Attempt to create the user again using a unique user name.
3200	Sequence increment by value cannot be 0	The sequence increment option that is specified must be greater than 0.
3201	Sequence cache has not been allocated	This is an internal error. Contact <a href="#">TimesTen Technical Support</a> .
3202	Illegal max value. Possible reasons: maximum/ minimum limit, or max < min	The maximum value input is not valid in a CREATE SEQUENCE statement. Please make sure that the maximum value does not exceed the maximum limit, or that the specified maximum is not less than the minimum value.
3204	Sequence <sequence_name> is not found	The sequence object specified is not found. Please use <a href="#">CREATE SEQUENCE</a> to create one.
3205	A table or sequence with this name already exists	The sequence object has a name conflict with an existing table name or vice versa. The sequence object name has to be unique in the sequence and table name spaces.
3206	CURRVAL or NEXTVAL not allowed in select with distinct, aggregate function, group by or order by	When a <a href="#">SELECT</a> query has a DISTINCT, GROUP BY or ORDER BY clause specified, CURRVAL and NEXTVAL references are not allowed.

3207	CURRVAL or NEXTVAL not allowed in subquery of update, delete or select	References to CURRVAL and NEXTVAL are allowed in main query statements but not in the subquery of an <a href="#">UPDATE</a> , <a href="#">CREATE VIEW</a> or <a href="#">SELECT</a> statement.
3208	CURRVAL or NEXTVAL not allowed in where clause	The WHERE clause in the <a href="#">SELECT</a> , <a href="#">UPDATE</a> or <a href="#">CREATE VIEW</a> SQL statements cannot have sequence reference. However, CURRVAL is allowed only in the <a href="#">SELECT</a> WHERE clause.
3209	CURRVAL or NEXTVAL is not supported in views	References to CURRVAL and NEXTVAL are not supported in a VIEW statement.
3210	Sequence max/min limit has been reached.	The value in the sequence has already reached its maximum or minimum limit. This occurs when the CYCLE option is not turned on for the sequence, and the minimum or maximum has been reached.
3211	CURRVAL may not be referenced before NEXTVAL in this session	In a single session, the application needs to reference NEXTVAL prior to referencing CURRVAL, so that the CURRVAL can be posted to this session.
3212	Failed to get the NEXTVAL	Unable to obtain a NEXTVAL. Possible reasons are: Application is unable to get the next value of the sequence from the cache because of an update problem or lock timeout; there is a problem in posting the NEXTVAL in the environment due to a memory allocation problem, or The application is adding the NEXTVAL to the session context.
3213	Load sequence to cache failed	An internal error occurred while loading the sequence into the cache.
3214	An error occurred while adding sequence value info to context	An internal error occurred while trying to add a sequence value into the context, possibly because of a memory allocation failure. Contact TimesTen <a href="#">Technical Support</a> .
3215	An error occurred while cleaning up sequence cache during rollback	When a rollback is performed, TimesTen clears up the cached sequences appropriately. An error is reported when the cleanup is not successful.

3221	Invalid statistics information: <error_number>	The statistics information passed to the <a href="#">ttOptSetColIntvlStats()</a> built-in procedure was invalid or incorrectly formatted. The <i>error_number</i> describes the specific problem. See " <a href="#">ttOptSetColIntvlStats</a> " in " <a href="#">Oracle TimesTen In-Memory Database API Reference Guide</a> " for a description of the correct format.
3300	"<Name> is not a valid type name; instead use <name>	An attempt was made to use a type name that is not valid in the current type mode. Us the suggested name instead.
3301	Type mode must be set to Oracle to use this feature	Only data stores that have the <a href="#">TypeMode</a> attribute set to Oracle type ( <a href="#">TypeMode</a> =0; the default) can contain cache groups. The <a href="#">TypeMode</a> of the data store cannot be changed after creation. To use cache groups, recreate the data store with Oracle type mode.

## Errors 4000 -4999

Error number	Error or warning message	Details
4053	Internal error. <error_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
4054	Internal warning: <detailed_warning>	This message warns that TimesTen adjusted either the heap page sizes or number of heap pages during a heap validity check. These values may have required readjusting because they had been overwritten.
4501	Data store cannot checkpoint to a network file system, <file_name>	Data store files cannot be located on a network file system. Move the checkpoints to a local file system and retry the operation.
4502	Data store cannot log to a network file system, <file_system>	Data store files cannot be located on a network file system. Move the checkpoints to a local file system and retry the operation.
4600	Argument <error> and <error>	Bad Argument Generic error message
4601	Argument <error> <message>	Bad Argument Generic error message



## Errors 5000 -5999

Error number	Error or warning message	Details
5002	Unable to connect to the cache agent for <data_store_path_name>; check agent status	Cannot connect to Oracle for the named data store. Check the status of the cache agent.
5006	Defining SQL string exceeds maximum allowed length	The sum of the “Column Mapping,” “Primary Key” and “SQL Piece” specifications in the configuration file exceeds the maximum allowed length.
5007	Cache agent error	There was a communication failure between the TimesTen cache agent and the client process.
5009	ODBC call failed	The TimesTen cache agent got an error on an ODBC call. For more details, look at the user error log entries.
5010	No OracleID specified in DSN	An attempt was made to start a TimesTen cache agent for a DSN that does not have the <b>OracleID</b> attribute specified.
5011	Oracle (OCI8) call failed	The TimesTen cache agent got an error on an Oracle (OCI8) call. For more details, look at the user error log entries.
5012	Oracle login failed	The TimesTen cache agent could not connect to the Oracle Database with the given username and/or password.
5013	Operation requires cache connection	The TimesTen cache agent could not execute the operation because it was not able to connect to TimesTen and/or Oracle. Ensure that the user name, password and Oracle ID are correct.
5014	Could not execute defining SQL	The SQL specified for defining the cached table could not be executed against the Oracle Database. Check the column names and table names.

Error number	Error or warning message	Details
5015	Mismatch in number of columns extracted and number of columns in cached table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
5016	Cache agent has too many existing connections	The number of active connections to this TimesTen cache agent exceeds the maximum allowed limit.
5019	Bad table name specification	The “Cached Table” specification in the configuration file has an invalid table name.
5020	Warning(s) during population of cache. See the user error log for details. <detailed_error_message>	A warning was given during table population. View the user error log for more details.
5021	Could not get meta data from Oracle: <detailed_error_message>	The Cache Administrator could not get the requested metadata from Oracle.
5022	Could not open output file for writing Oracle meta data	The Cache Administrator was not able to write the Oracle metadata to the output file because it was not able to open the output file.
5025	Commit failure in Oracle. Transaction must be rolled back in TimesTen.	Commit failed in Oracle. The TimesTen transaction must be explicitly rolled back.
5026	Cannot alter cached tables	Cached tables cannot be altered. To modify a cached table and execute the new <a href="#">CREATE CACHE GROUP</a> statement.
5029	"Warning(s) while populating the cache. <detailed_warning_message(s)>	A warning was generated while populating the cached table. The details are attached to the message.
5030	Communication buffer overflow. The cache group definition is too large to perform this operation	The TimesTen cache agent communication buffer overflowed. The operation failed. The most likely cause of this error is that the cache group contains several tables and/or each table contains several columns and the total length of these tables and columns has exceeded the communication buffer

Error number	Error or warning message	Details
5034	The operation must be executed within its own transaction	Each cache group operation must be executed within its own transaction. A commit must be done both before and after executing a cache group operation.
5035	A cache group may not have a negative number of tables	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
5036	Warning(s) while populating the cache. <detailed_warning_message(s)>	Some SQL warnings were generated while loading or refreshing the cached table. Detail warning messages are appended to the end.
5037	An error occurred while loading <cache_group_name>: <detailed_warning_message>	An error occurred while loading or refreshing the cached table. The detailed error follows this error message.
5038	Warning(s) while populating the cache. <detailed_warning_message>	Some SQL warnings were generated during the population stage of the <a href="#">MERGE</a> operation. The detailed error follows this error message.
5039	An error occurred while refreshing the <cache_group_name> <detailed_error_message>	An error occurred while refreshing the cached table. A detailed error follows this error message.
5045	Cache group operations may not use data store level locking	Cache group operations require row-level locking to allow the TimesTen cache agent to get simultaneous access to the data store.
5046	Commit/rollback required after Cache Group statement	An error occurred after executing a LOAD, UNLOAD or REFRESH command. This error occurs when the user does not immediately commit or rollback the transaction after executing a LOAD, UNLOAD or REFRESH command. These cache group commands are required to be the only operation in the transaction. To fix this error, commit or rollback right after these cache group operations.
5047	This operation is not allowed on cached tables	An index from a cached table cannot be dropped.

Error number	Error or warning message	Details
5048	Feature, <feature_name>, not supported	The feature entered is invalid or not supported.
5050	Cache group definition was too long. Current system limit on <field_name> is <size> bytes. Specified definition requires <size> bytes	Either the cache group WHERE clause is too long or the cache group has too many long column names or too many tables. The maximum allowed length of the cache group WHERE clause is 4096 characters.
5051	Commit message to cache agent failed. Cache agent must be restarted	Failed to notify the cache agent of the transaction commit. Check if cache agent has been shut down. If so, restart the cache agent.
5052	Cache group name required with install_flag value 1	No <i>cache_group_name</i> parameter provided for the <b>ttCacheSqlGet()</b> built-in procedure call. The <i>cache_group_name</i> parameter cannot be NULL or empty when the <i>install_flag</i> parameter is set to 1.
5053	Add/Drop foreign keys are not allowed on cached tables	Adding or dropping foreign keys to cached tables is not supported in TimesTen.
5054	Detect loss of Oracle Connection (<error_number>) during rollback. Oracle rollback will be implicit	The Oracle connection terminated during a transaction rollback. The pending Oracle transaction was (or will be) rolled back by the Oracle server. The <error_number> is either an ORA-xxxxx message, an Oracle error code that was returned by Oracle during rollback, or “no error code”, which means the connection was broken prior to the Oracle rollback request.
5060	Rollback on Timesten not available in no logging mode. Rollback on Oracle succeeded. Must refresh the affected cache groups	An error was encountered when propagating to Oracle. The transaction on Oracle has been successfully rolled back. Because there is no rollback available on TimesTen, the user must manually fix the TimesTen transaction. One way to make the cache groups consistent with Oracle is to unload and reload all affected cache groups.

Error number	Error or warning message	Details
5061	Oracle and TimesTen in inconsistent state. Invalidating the data store. Must refresh the affected cache groups	An error was encountered when propagating to Oracle. The rollback on Oracle also failed. TimesTen and Oracle data are in a transactionally inconsistent state. One way to make the cache groups consistent with Oracle is to unload and reload all affected cache groups.
5101	An error occurred while generating the name of the backend database shared library for database type: <database_type>	Oracle is the only supported backend database for cache group operations and passthrough.
5102	Cannot load backend library <library_name> for Cache Connect. OS error message <error_details>.	<p>The library used by Cache Connect could not be loaded. This can happen if:</p> <ul style="list-style-type: none"> <li>• The library was not installed or is named differently than the Oracle OCI</li> <li>• The library was not found</li> <li>• The library search path does not contain the TimesTen library directory. The search path is defined by the PATH environment variable on Windows NT systems or the LD_LIBRARY_PATH environment variable on UNIX systems.</li> <li>• The Oracle library bits do not match the TimesTen bits. For example, on HP-UX11, if you receive this error with errno = 8 (exec format error), the common cause is that the 64-bit Oracle shared library got linked in instead of the 32-bit library. Check the values of your SHLIB_PATH, LD_LIBRARY_PATH, and PATH environment variables. Make sure \$ORACLE_HOME/lib is not in any of them and also make sure \$ORACLE_HOME/lib32 is in SHLIB_PATH.</li> </ul> <p>Some platforms use something other than LD_LIBRARY_PATH. See the <a href="#">"Shared library path environment variable"</a> in the <i>Oracle TimesTen In-Memory Database Installation Guide</i> for details.</p>

Error number	Error or warning message	Details
5103	The cache group operation could not unload the backend database shared library. <library_name>	The OS had some problem unloading the backend database library.
5104	Could not initialize the function pointers backend database api. Function <function_name> was not in the library.	This usually indicates that an older version of the backend library was loaded. Check the library search path to verify that it is pointing to the correct library directory.
5105	OCI initialization failed	Oracle OCI could not be initialized. This is a necessary component for Cache Connect. This usually occurs when there is not enough memory on the client machine.
5106	Could not allocate <handle_name> handle	This is usually occurs when there is very little memory left on the client machine.
5107	Oracle(OCI) <Oracle_error_id> in <OCI_call>: <Oracle_error_number>	The operation that was being performed has failed because of an error that occurred while executing an Oracle OCI function. Details on the error are specified within the error message. See <a href="#">"Interpreting and managing Oracle errors"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> for more information.
5109	Cache Connect general error: <Oracle_operation>	Cache Connect failed in the identified Oracle operation. This error is usually accompanied by a more specific error message. If not, contact TimesTen <a href="#">Technical Support</a> .
5110	Table does not exist in Oracle: <table_name>	The cache group table does not exist on Oracle.
5111	Could not find matching unique index for cache table <table_name>	The primary key defined on TimesTen must match the primary key or unique NOT NULL key on Oracle.

Error number	Error or warning message	Details
5112	Cache table <table_name> contains VARCHAR column(s). Oracle VARCHAR comparison rule is different.	This is a warning. The comparison rule for Oracle VARCHAR differs from the TimesTen comparison rule. This may cause a primary key constraint violation on TimesTen while loading Oracle rows. The problem may happen when there are trailing spaces in the Oracle data. TimesTen generates this warning whenever there is a VARCHAR column in a cache table.
5113	Cache table <table_name> contains REAL/DOUBLE/FLOAT column(s). Cached value may have a different precision.	This is a warning. Oracle and TimesTen have different implementations of floating point data types and the precisions are different. As a result, the cached value may be slightly different than the value in Oracle. TimesTen generates this warning when you try to create a table with a REAL, FLOAT or DOUBLE type.
5114	Unsupported type mapping for key column <column_name>	The data type mapping rules were violated on a key field. See <a href="#">"Data type support"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> for more information.
5115	Unsupported type mapping for column <column_name>	The data type mapping rules were violated on a non-key field. See <a href="#">"Data type support"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> for more information.
5116	Column <column_name> does not exist in Oracle	Verify that you have correctly spelled the column name or provide a new name.
5117	Illegal WHERE clause for cache table <table_name>	The WHERE clauses specified in the <b>CREATE CACHE GROUP</b> statement do not work on Oracle.
5118	Column <column_name> has different precision/scale in Oracle	This is a warning. Oracle and TimesTen have different implementations of floating point data types and the precisions are different. TimesTen issues this warning when a TimesTen DECIMAL type is mapped to an Oracle NUMBER type.
5119	Column <column_name> has different nullability setting in Oracle	This is a warning. The nullability setting of a column on TimesTen differs from that of the column on Oracle.

Error number	Error or warning message	Details
5120	No matching unique index or unique constraint on table <table_name>, cache operations are restricted	The cache group operations are restricted to full cache group <a href="#">LOAD CACHE GROUP</a> , <a href="#">UNLOAD CACHE GROUP</a> and <a href="#">MERGE</a> operations because TimesTen cannot find a primary key or a unique NOT NULL index on Oracle to match the cache table's primary key.
5121	Non-standard type mapping for column <column_name>, cache operations are restricted	The cache group operations are restricted to full cache group <a href="#">LOAD CACHE GROUP</a> , <a href="#">UNLOAD CACHE GROUP</a> and <a href="#">MERGE</a> operations because non-standard type mapping was used.
5123	Operation not allowed on restricted cache group <cache_group>	The specified operation is not allowed on a restricted cache group. A cache group is restricted if it has a non-standard data type mapping in one of its columns or if there is no matching primary key on Oracle.
5124	Autorefresh/propagate are not allowed on restricted cache group	AUTOREFRESH and PROPAGATE are not allowed on a restricted cache group. A cache group is <i>restricted</i> if it has a non-standard data type mapping in one of its columns or if there is no matching primary key on Oracle.
5125	Caching of Timestamp column(s): fractional seconds may be truncated	The scale of the TimesTen TIMESTAMP type is always 6. Mapping of Oracle TIMESTAMP COLUMNS with a scale other than 6 to a TimesTen TIMESTAMP column may cause silent truncation of the column value at runtime.
5126	A system managed cache group cannot contain non-standard column type mapping	See " <a href="#">Data type support</a> " in the <i><a href="#">TimesTen Cache Connect to Oracle Guide</a></i> for a list of supported data type mappings.
5127	Backend connection invalid. <error_details>	An error occurred while trying to connect to Oracle or an invalid backend database was specified in the connection.
5128	<handle_name> handle is invalid. The Oracle connection may have been lost. Retry your operation.	Cache Connect handle has been invalidated. In most cases, this occurs when the connection to Oracle has been lost. Check if the Oracle instance is up and retry the operation.



Error number	Error or warning message	Details
5129	SQL command is no longer valid. <handle_name> handle has been invalidated> The Oracle connection may have been lost after the statement was prepared.	Cache Connect handle has been invalidated. In most cases, this occurs when the connection to Oracle has been lost. Check if the Oracle instance is up and retry the operation. The prepared statement must be re-prepared.
5130	Error executing the following statement on Oracle:<query>	The execution of <i>query</i> failed on Oracle. Examine the query and verify the Oracle schema has not changed during Cache Connect operations.
5131	Cannot connect to <name> database: connect_string = "<dsn>", uid = "<user_id>", pwd is hidden	Common causes of connection failures are incorrect connection string, user id or password. You may also find the Oracle error number in other messages on the error stack. Check Oracle error message manual for the corresponding Oracle error.
5132	SQL command is no longer valid. <type> handle has been invalidated. The Oracle connection may have been lost after the statement was prepared.	The Oracle SQL statement used by Cache Connect is no longer valid.
5133	Could not re-install SIGINT signal handler	Cache Connect failed to re-install the SIGINT signal handler. The handler was changed by Oracle. Contact TimesTen <a href="#">Technical Support</a> .
5134	Could not determine Oracle server version	Cache Connect failed to determine the version of the Oracle server. Contact TimesTen <a href="#">Technical Support</a> .
5150	The statement handle is in an invalid state for the operation: <operation_name>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
5151	Pass through is not supported for this type of Oracle statement.	Attempt to pass through an unsupported SQL statement from TimesTen to Oracle. For details, see the description for the <a href="#">PassThrough</a> attribute in the <a href="#">Oracle TimesTen In-Memory Database API Reference Guide</a> .

Error number	Error or warning message	Details
5152	Could not determine what type of Oracle statement that is being prepared. Maybe a possible syntax error.	OCI was not able to identify the type of statement being passed through. Please check the syntax.
5153	<operation> is not allowed for this type of Oracle statement	A fetch was called on a non- <a href="#">SELECT PASSTHROUGH</a> statement.
5155	Wrong number of parameters	The number of input parameters does not match the number of parameters set by the user.
5156	Too many parameters. Maximum number of parameters allowed is <maximum_number>	For passthrough operations, the number of input parameters exceeds the maximum allowed.
5157	Pass through of Timestamp column(s): fractional seconds will be truncated	TimesTen does not support fractional seconds in <b>TIMESTAMP</b> columns. Any Oracle <b>TIMESTAMP</b> columns that have fractional seconds appear in TimesTen without those fractional seconds.
5158	Oracle compilation error: <error>	The Cache Connect operation encountered an Oracle compilation error. Contact <a href="#">TimesTen Technical Support</a> .
5159	Index <i>owner.name</i> was converted to a non-unique index because table <i>owner.name</i> is a member of an autorefreshed cache group.	This is a warning. Any unique index created on a table in an autorefresh cache group is automatically converted to a non-unique index.
5160	Fail to prepare Oracle objects for datastore duplication: <i>details</i>	Can occur during database duplication. Some Oracle objects are missing or are in use by another application. Additional details may be displayed.
5161	Conflicting concurrent updates to bipropagated rows	See " <a href="#">PROPAGATE</a> " table attribute in <i><a href="#">TimesTen Cache Connect to Oracle Guide</a></i> .
5162	Could not register Oracle failover callback function	A callback function to handle Oracle RAC failures was not registered. You must manually reconnect to Oracle after a connection failure.

Error number	Error or warning message	Details
5163	Oracle failover failed with event <event_ID>. Retried for <number> minutes	TimesTen was not able to re-establish a connection to Oracle. TimesTen retries the connection for the indicated number of minutes.
5164	No matching foreign key with cascade action for table <table_name> on Oracle	To specify a CASCADE DELETE foreign key on a cache table that is specified as PROPAGATE, or belongs to a cache group that is specified as AWT or SWT, there must be a matching CASCADE DELETE foreign key defined on the corresponding Oracle table. You must either remove the CASCADE DELETE foreign key on the cache table or add one on the Oracle table.
5165	Autorefresh state <state> for <cache_group> is incompatible with replication scheme. Autorefresh state should be <state>.	The AUTOREFRESH state indicated in the messages for the specified cache group is incompatible with the associated replication scheme. You must either ALTER or CREATE the cache group with the compatible state indicated in the message.
5166	Autorefresh state <state> for <store> is incompatible with replication store state <state>. Autorefresh state should be <state>.	The AUTOREFRESH state indicated in the messages for the specified cache group is incompatible with the associated replication store state. You must either ALTER or CREATE the cache group with the compatible state indicated in the message.
5167	Deprecated type mapping for column <column_name>	The type mapping is not supported. You must change the type of the indicated column.
5168	Restricted cache groups are deprecated	Restricted cache groups are supported in this release for backward compatibility.
5169	The data store must be in Oracle data type mode in order to use any of the Cache Connect features.	Oracle type mode is required for the data store that contains the cache group.

Error number	Error or warning message	Details
5170	Duplicate completed successfully but the cache metadata will be updated after the cache and replication agents have been started on the destination store because of the reasons stated below.	Metadata stored on Oracle for cache groups is updated by the cache and replication agents after they are started and they are able to connect to Oracle. Ensure that the cache and replication agents are started on the destination data store.
5201	Operations for Cache Agent are not allowed for temporary data stores	Oracle data can be cached only in a permanent TimesTen data store.
5202	Environment variable ORACLE_HOME must be set to perform this operation	Set the <a href="#">ORACLE_HOME environment variable</a> to point to the location of your Oracle installation.
5203	Could not find library <library_name>	On UNIX only, Oracle client library libcIntsh.sl or libcIntsh.so cannot be found under \$ORACLE_HOME/lib or \$ORACLE_HOME/lib32. Check your \$ORACLE_HOME environment variable.
5204	Environment variable PATH not set	To cache Oracle data, you must specify the location of the OCI.DDL in the PATH environment variable.
5205	OCI.DLL must be in PATH to perform this operation	To cache Oracle data, you must specify the location of the OCI.DDL in the PATH environment variable.
5206	Environment variable ORACLE_HOME must not be more than 256 characters long	TimesTen limits the value of \$ORACLE_HOME to 256 characters.

Error number	Error or warning message	Details
5207	This operation cannot be performed while there are any AWT cache groups or incrementally autorefreshed cache groups with state on or pause in the datastore. Drop all Awt cache groups, alter all incrementally autorefreshed cache groups to state off and try again.	The cache administrator UID/PWD cannot be set if there are any AWT or AUTOREFRESH cache groups with state ON or PAUSED. DROP or ALTER the cache group and reset the UID/PWD.
5210	Oracle unique constraint violation <error/warning> in <OCI_function>: <Oracle_error_number>	Unique constraint violation occurred on Oracle in the named Oracle OCI function.
5211	Oracle out of resource <error/warning> in <OCI_function>: <Oracle_error_number>	Out of resource error occurred on Oracle in the named Oracle OCI function.
5212	No longer connected to Oracle <error/warning> in <OCI_function>: <Oracle_error_number>	Connection lost to Oracle.
5213	Bad Oracle login <error/warning> in <OCI_function>: <Oracle_error_number>	Oracle login error
5214	Not connected to Oracle <error/warning> in <OCI_function>: <Oracle_error_number>	No connection to Oracle.
5215	Oracle resource timeout <error/warning> in <OCI_function>: <Oracle_error_number>	Oracle resource timeout occurred on Oracle in the named Oracle OCI function.
5216	Oracle resource busy <error/warning> in <OCI_function>: <Oracle_error_number>	Oracle resource busy.

Error number	Error or warning message	Details
5217	Oracle deadlock <error/warning> in <OCI_function>: <Oracle_error_number>	Oracle deadlock occurred on Oracle during the named Oracle OCI function.
5218	Bad parameter to Oracle <error/warning> in <OCI_function>: <Oracle_error_number>	Bad parameter specified for the named Oracle OCI function.
5219	Temporary Oracle connection failure <error/warning> in <OCI_function>: <Oracle_error_number>	Temporary Cache Connection failure occurred on Oracle during the named Oracle OCI function.
5220	Permanent Oracle connection failure <error/warning> in <OCI_function>: <Oracle_error_number>	Permanent Cache Connection failure occurred on Oracle during the named Oracle OCI function.
5221	Oracle syntax <error/warning> in <OCI_function>: <Oracle_error_number>	Oracle syntax error occurred on Oracle in the named Oracle OCI function.
5222	Oracle constraint violation <error/warning> in <OCI_function>: <Oracle_error_number>	Constraint violation occurred on Oracle in the named Oracle OCI function.
5223	Oracle orphan violation <error/warning> in <OCI_function>: <Oracle_error_number>	Orphan violation occurred on Oracle in the named Oracle OCI function.
5224	Oracle foreign key violation <error/warning> in <OCI_function>: <Oracle_error_number>	Foreign key violation occurred on Oracle in the named Oracle OCI function.
5225	Oracle recovery in progress <error/warning> in <OCI_function>: <Oracle_error_number>	Recovery in progress error occurred on Oracle in the named Oracle OCI function.

Error number	Error or warning message	Details
5226	Oracle data truncation <error/warning> in <OCI_function>: <Oracle_error_number>	Data truncation error occurred on Oracle in the named Oracle OCI function.
5243	The operation cannot be executed if the Replication Agent is not running. Please check the status of the agent.	Check the status of the replication agent and restart the agent if it is not running.
5244	Asynchronous WriteThrough will not be enabled until the Replication Agent for this datastore has been started.	Asynchronous writethrough cache groups require the replication agent to be running. The replication agent appears to be stopped. Restart the replication agent if it is not running.
5245	The operation cannot be executed while the Replication Agent for this datastore is running.	Stop the replication agent.
5246	The Replication Agent for this datastore is currently running.	Informational.
5247	The operation cannot be executed while the cache agent for this data store is running.	Stop the cache agent.
5249	Awt Initialization Failure: <i>detailed_error_number</i>	An error occurred while initializing the asynchronous writethrough thread in the replication agent.
5250	Awt Initialization Failure. Could not compile meta data sql.	TimesTen attempted to get metadata from Oracle. One of TimesTen SQL statements did not compile.

Error number	Error or warning message	Details
5251	Cache admin uid and pwd must be set since there are awt cache groups in this datastore. Shutdown the replication agent and the cache agent, set the cache admin uid and pwd, and restart the agents.	Asynchronous writethrough cache group needs to have the cache administration user ID and password set.  1. Stop the replication agent and the cache agent. 2. Set the cache administration user ID and password by using either the <a href="#">ttCacheUidPwdSet</a> procedure or <a href="#">ttAdmin</a> -cacheUidPwdSet -cacheUid -cachePwd. 3. Restart the agents.
5252	Could not retrieve the cache admin user and password	Failed to retrieve the cache administration user ID and password for asynchronous writethrough cache groups.
5254	Operation failed. Could not find AWT cache group information.	This error can occur during execution of <a href="#">ttAdmin</a> -duplicate. Information about an asynchronous writethrough cache group could not be found in the TimesTen schema.
5256	Could not find runtime data for AWT.	This error can occur during the creation of an asynchronous writethrough cache group. The replication information for the cache group could not be found. Try creating the cache group again. See " <a href="#">Detecting errors when using AWT cache groups</a> " in the <i>TimesTen Cache Connect to Oracle Guide</i> .
5257	Cache admin user and/or password could not be found. Changes via AWT cannot be applied without them.	The cache administration user ID or password is not set or could not be found during startup of an asynchronous writethrough cache group. Use <a href="#">ttCacheUidPwdSet</a> to set the cache administration user ID and password and restart the replication agent.
5258	An update operation tried to update a row that does not exist on Oracle. Expecting <i>number</i> updates and <i>number</i> rows were affected.	The transaction was rolled back because there were update operations on rows that are not in the Oracle tables.



Error number	Error or warning message	Details
5259	Failed to store AWT runtime information for data store <data_store_name> on Oracle	TimesTen could not store the state information for AWT. Check the state of the Oracle server if the error persists.
5260	Failed to store AWT runtime information for data store <data_store_name> on Oracle. Wrong number of rows updated. Should be 1 but <value> were updated	The state information for AWT is corrupt. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
5261	Failed to read AWT runtime information for data store <data_store_name> on Oracle	TimesTen could not read the state information for AWT. Check the state of the Oracle server if the error persists.
5262	Could not store the autorefresh bookmarks because the autorefresh state should be <state> but instead was <state>	The system is trying to store bookmarks for AUTOREFRESH when the AUTOREFRESH state is not appropriate. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
5263	<owner>.<table> is not an autorefresh cache group	The cache or replication agent tried to store AUTOREFRESH bookmarks on a non-AUTOREFRESH cache group. If the problem persists, contact TimesTen <a href="#">Technical Support</a> .
5800	Could not allocate a statement handle	The TimesTen cache agent was not able to allocate either an Oracle or TimesTen statement handle. See the user error log for more details.
5801	Could not get a column attribute.	The TimesTen cache agent was not able to get information about the columns in a table. The operation that the agent was performing failed. See the user error log for more details.
5900	Could not get the start and end of auto-refresh log	This error will occur when the TimesTen cache agent is not able to access the log table or the log table is corrupt. When this happens the agent will try to access the log table a few times. If all attempts fail, the agent will stop incrementally auto-refreshing the cache group.

Error number	Error or warning message	Details
5901	The Oracle refresh log table, <log_table_name>, for base table, <owner.table>, cannot be found.	The log table <i>log_table_name</i> for autorefresh of the table <i>owner.table</i> cannot be found. It may be that the cache administrator user does not have sufficient privileges to read the log table.
5902	The length of the name of the Oracle object has exceeded the expected length. Please call technical support	This is a fatal system error. Contact TimesTen <a href="#">Technical Support</a> .
5903	Log was truncated during incremental refresh. Please report to technical support.	This is a fatal system error. Contact TimesTen <a href="#">Technical Support</a> .
5904	A cache admin uid was not set before starting the cache agent.	<p>If you are incrementally refreshing a cache group, the cache administrator user ID is required.</p> <ol style="list-style-type: none"> <li>1. Stop the agent.</li> <li>2. Set the cache administration user ID and password by using either the <a href="#">ttCacheUidPwdSet</a> procedure or <a href="#">ttAdmin</a> -cacheUidPwdSet - cacheUid -cachePwd.</li> <li>3. Restart the agent.</li> </ol>
5905	A cache admin pwd was not set before starting the cache agent. The Oracle objects required for incremental autorefresh must be created manually.	<ol style="list-style-type: none"> <li>1. Stop the agent.</li> <li>2. Set the cache administration user ID and password by using either the <a href="#">ttCacheUidPwdSet</a> procedure or <a href="#">ttAdmin</a> -cacheUidPwdSet - cacheUid -cachePwd.</li> <li>3. Restart the agent.</li> </ol>
5907	The cache admin uid was not set before performing the operation. Set the cache admin user id and password either through the built-in procedure ttCacheUidPwdSet or the utility ttAdmin and try again.	Set the cache administration user ID and password by using either the <a href="#">ttCacheUidPwdSet</a> procedure or the <a href="#">ttAdmin</a> utility and retry the operation.

Error number	Error or warning message	Details
5908	The cache admin pwd was not set before performing the operation. Set the cache admin user id and password either through the built-in procedure <code>ttCacheUidPwdSet</code> or the utility <code>ttAdmin</code> and try again.	Set the cache administration user ID and password by using either the <a href="#">ttCacheUidPwdSet</a> procedure or the <a href="#">ttAdmin</a> utility and retry the operation.
5909	The cache admin user id was not set before starting the agent. Set the cache admin user ID and password either through the built-in procedure <code>ttCacheUidPwdSet</code> or the utility <code>ttAdmin</code> and try again.	<p>The TimesTen cache agent must be started with the cache administration user ID and password for autorefresh and AWT cache groups.</p> <ol style="list-style-type: none"> <li>1. Stop the agent.</li> <li>2. Set the cache administration user ID and password by using either the <a href="#">ttCacheUidPwdSet</a> procedure or <code>ttAdmin -cacheUidPwdSet -cacheUid -cachePwd</code>.</li> <li>3. Restart the agent.</li> </ol>
5911	Could not login into Oracle using the cache admin user id and password.	The TimesTen cache agent was not able to login into Oracle using the cache administration user ID and password that were provided. Check if the cache administration user ID and password are valid on the Oracle SID that you specified for the DSN.
5912	Cache admin uid is not a user on the Oracle instance.	Invalid cache administration user ID provided for the cache agent. Check if the cache administrator user ID that was provided is a user on the Oracle SID for the DSN.
5913	Table parameter should be NULL	The <code>table_name</code> parameter for the <a href="#">ttCacheSqlGet()</a> built-in procedure should be NULL.
5914	<table> not found in Oracle.	The TimesTen Cache Agent could not find the Oracle table to be cached. Please check if the table exists on Oracle. Also verify that the cache administration user ID has the privilege to access the table.

Error number	Error or warning message	Details
5917	Object id <id> not found or the user <user> does not have sufficient privilege to view the object	Indicates that either the Oracle table that was cached has been dropped in Oracle or, if this error is returned in response to a <a href="#">CREATE CACHE GROUP</a> statement, the specified Cache Agent account does not have the appropriate privileges. See "Create Oracle users and set privileges" in the <i>TimesTen Cache Connect to Oracle Guide</i> for details.
5918	Log table <table_name> not found or the user <user> does not have sufficient privilege to view the log table	The autorefresh log table could not be found on Oracle, or the specified cache agent account does not have the appropriate privileges.
5919	The <description> is different from when the cache was created or no longer exists. The cache group definition is no longer valid	Verify that a cache group exists with the original attributes.
5920	Oracle object id <i>objectID</i> or log table <i>table_name</i> for cache group <i>cache_group_name</i> not found on Oracle	TimesTen cannot find the Oracle object with ID <i>objectID</i> or the TimesTen installed table <i>table_name</i> for AUTOREFRESH. Check that the table has not been dropped or altered under AUTOREFRESH. Also, check that no changes have been made to the schema on Oracle.
5921	Could not connect to Oracle. Please check the status of the Oracle instance.	Verify that the Oracle instance exists.
5922	The minimum stop timeout value is <min_value> which will be used instead of <specified_value>	The timeout value specified for the <a href="#">ttCacheStop</a> procedure is too small. The default value will be used. Autorefresh will not start until able to connect. Check the user error log for any errors.
5923	Cache agent has deferred the create/alter cache group request because it is not connect to Oracle yet.	The create/alter/drop cache group statement cannot be completed because the cache agent is still waiting to connect to Oracle. Verify the Oracle instance is running and the network connection is also available. Check the user error log for any errors.

Error number	Error or warning message	Details
5924	Cache agent has deferred the create/alter cache group request because it is not fully initialized yet	Attempt to create/alter/drop an autorefresh cache group while the cache agent is not fully started yet. Wait until the agent is fully started and reissue the statement.
5935	Could not validate Oracle login: uid = <Oracle_UID>, pwd = <Oracle_PWD>, oracleId = <Oracle_SID>. Verify the uid and pwd. Check the status of the TNS Listener and Oracle Server.	Cache Connect failed to verify the Oracle login for named user ID. The common causes of this errors are: <ul style="list-style-type: none"> <li>• The specified UID/PWD is incorrect</li> <li>• The <b>OracleID</b> setting is incorrect</li> <li>• The Oracle listener is down</li> <li>• The Oracle server is down</li> </ul>
5936	Need to specify both cache admin uid and pwd or neither of them when starting the cache agent.	The cache administration user ID or password was omitted when calling the deprecated built-in procedure <code>ttOracleAgentStart</code> .
5937	Need to specify both cache admin uid and pwd to start the cache agent since there are cache groups specified with autorefresh or there are asynchronous cache groups.	The cache administration user ID and password must be set prior to the start of the cache agent if there are autorefresh or asynchronous writethrough cache groups. Use the <a href="#">ttCacheUidPwdSet</a> procedure to set the User ID and password and restart the cache agent.
5938	<code>owner.name</code> or <code>owner.name</code> table does not exist on Oracle. Oracle objects related to cache groups may not get cleaned up.	The specified objects created by TimesTen on Oracle are missing. Drop and recreate the cache groups in TimesTen.
5940	The operation failed because the cache admin uid could not be verified. Please reconnect and try again.	The cache group operation requires that the cache agent be first started with the assigned <i>cacheUid</i> and <i>cachePwd</i> . Restart the cache agent with the correct cache administration user ID and password and reconnect the application.
5941	Cache admin uid has been changed from <i>cacheUid</i> to <i>cacheUid</i> . Switching over to the new uid.	The cache administration user ID has been changed by the user. Verify that the cache agent is started with a new <i>cacheUid</i> .

Error number	Error or warning message	Details
5942	The specified cache admin uid <code>cacheUid</code> and pwd (hidden) does not match the stored ones. Please use <code>ttCacheUidPwdSet()</code> to change the stored ones.	The cache administration user ID and password do not match the stored cache administration user ID and password. Change the stored cache administration user ID and password with the <a href="#">ttCacheUidPwdSet</a> procedure.
5943	The source datastore cache admin uid <code>cacheUid</code> is different from the destination datastore cache admin uid <code>cacheUid</code> .	The cache administration user ID must be the same on the source data store and the destination data store.
5947	Cache admin UID and PWD need to be specified for datastore duplication because there are AUTOREFRESH or ASYNCHRONOUS WRITETHROUGH cache groups	The cache administration user ID and password are required to duplicate autorefresh or AWT cache groups.
5948	Subscribing stores in Active Standby schemes must specify <code>-noKeepCg</code>	When duplicating data stores that contain Active Standby schemes, cache group tables cannot be maintained as cache group tables. You must specify the <code>-noKeepCG</code> option with <code>ttRepAdmin -duplicate</code> .
5990	A fatal error occurred in the cache agent.	Cache agent reports a fatal error during AUTOREFRESH. Please contact <a href="#">TimesTen Technical Support</a> and send TimesTen the latest daemon/sys log.
5991	The refresh operation failed. The agent will try again to refresh the cache group	A nonfatal error, such as a lock timeout, occurred during AUTOREFRESH. The cache agent will retry the AUTOREFRESH.
5992	Unable to cleanup orphaned Oracle objects because it could not lock the appropriate tables	When the cache agent starts, the agent removes any orphaned Oracle objects that were used in a previous autorefresh process. Before dropping the orphaned object, the agent locks the <code>FT_USER_COUNT</code> table so that no other agent can create new or drop old Oracle objects. This warning is triggered when the agent was not able to lock the <code>FT_USER_COUNT</code> table.

Error number	Error or warning message	Details
5994	Existing tt_xx_user_count table is not compatible. Use timesten built in procedure ttCacheSqlGet to generate sql to cleanup all autorefresh objects under user <user_name>	The USER_COUNT table on Oracle is not compatible with this version of Cache Connect. Uninstall and reinstall the Oracle objects for autorefresh manually. See <a href="#">"Removing Oracle objects"</a> and <a href="#">"Manually installing Oracle objects"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> for details.
5995	Cache agent is shutting down	Informational message

## Errors 6000 - 6999

Error number	Error or warning message	Details
6000	Bad locking level for data store connection	Only row-level and data store-level locking is allowed. Reset <b>LockLevel</b> attribute.
6001	Lock request denied because of conflict on conditional request Details: <error_description>	Lock request denied because of conflict on conditional request. This error will only appear in the TimesTen user error log.
6002	Lock request denied because of deadlock Details: <error_description>	Unable to grant lock request because granting it would cause a deadlock situation. The application must rollback and re-start the whole transaction. For information on lock resources and modes indicated in this message, see "ttXactAdmin" in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> .
6003	Lock request denied because of time-out Details: <error_description>	Unable to grant lock request because the lock is not immediately available or a timeout occurred waiting for the lock to be released. (If the lockwait interval is set to 0-2 seconds, this error may also result from a deadlock, as the deadlock detector runs only every 2 seconds.) Retry the lock request. If denied, rollback and restart the operation. For information on lock resources and modes indicated in this message, see "ttXactAdmin" in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> .
6004	Bad transaction isolation level	An ODBC application can never get this message.
6005	Lock request denied because of not enough temp space available: <error_description>	The lock manager has run out of memory in the temporary segment. Compact the data store, or increase the size of the temporary segment.
6006	Lock-wait interval must be between 0 and 1,000,000	The lock-wait interval is out of range. Use the <b>ttLockWait</b> built-in procedure to set the lock-wait interval.



6009	Active connection has conflicting isolation level	The non-blocking delete isolation level cannot be used concurrently with other isolation levels. If a connection has an open transaction using any other isolation level, then no transaction using non-blocking delete isolation can be started. Similarly, if a connection has an open transaction using non-blocking delete isolation, then no transaction using any other isolation can be started. The conflicting transactions must be committed or rolled back. A lock is used to wait for access, but it may time out if the conflicting transactions do not complete in the timeout interval.
6010	Lock request denied (db is invalid: <data_store_name>)	The data store is not valid. See description of error 994 for more information.
6011	lock request denied (locksleep error <error>)	Internal error. Please contact TimesTen <a href="#">Technical Support</a> .
6013	Bad value for check Override parameter, should be 0 or 1	Provide the appropriate attribute value, either 0 or 1.
6014	Row list maintenance error. To avoid this please use prefetchcount of 1	A row list that was thought to be wide enough for storing rowids was not wide enough. The system underestimated the required memory size. The fetch failed. No invalidation should have occurred. Use a prefetch count of 1 and try to force the system not use these lists. Alternatively, use cursor stability isolation mode.
6101	Attempting operation beyond end of cursor	Application is trying to fetch rows beyond the end of cursor. This typically happens when the application does not check for end-of-cursor indication and attempts to seek beyond.
6102	Cursor is not updatable	Application attempts to open cursor for updating on a non-updatable <a href="#">SELECT</a> .
6103	Cursor has no current row defined	Cannot perform the delete or update operation because the operation is being done on CURRENT of cursor before the first FETCH.

6104	Column is not updatable via this cursor	The column cannot be updated by the cursor because the column is not a simple column or it does not exist.
6105	Update conflict caused by open index cursor(s) on table	There is an open index scan on the table and the application attempts to delete a row from the table or the application attempts to insert a row into the table, thereby attempting the deletion or insertion of a key into one or more indexes.
6106	Operation conflicts with open table cursor(s)	The operation is not permitted when a cursor is open on the table. Close any cursor on the table and retry the operation.
6107	Invalid cursor	The cursor is invalid because it has not been opened or the structure of the table or index on which the cursor is defined has changed.
6108	Cursor state made "unpositioned" by updates in the same transaction	<p>Within the same transaction, an operation has deleted the page of the row that the cursor was positioned on. This error can occur when the following conditions are met:</p> <ul style="list-style-type: none"> <li>- <b>Logging</b> is turned off, and</li> <li>- A searched <b>CREATE VIEW</b> (DELETE FROM ... WHERE ...) is issued on a table on which this transaction also has an open cursor, and</li> <li>- The transaction does the next fetch on the cursor and tries to fetch the rows it deleted via the searched delete.</li> </ul>
6109	Cannot open cursor until updates are committed	There is an open index scan on the table, and the application attempts to delete CURRENT of cursor, or the application attempts to update CURRENT of cursor. One (or more) of the columns being updated is also the key for the index being used in the index scan.
6110	Cursor update disallowed due to conflict with index	Cannot use a cursor to delete from or update an index.
6111	SQL Query has reached its timeout limit and has been terminated	This statement has exceeded the maximum time allowed by the SQL_QUERY_TIMEOUT option. TimesTen has stopped its execution and removed its effects, if any

6200	New value for permanent data partition size ignored since smaller than current value of <megabyte_count> megabytes	Warning: Connect <b>PermSize</b> is ignored if it is smaller than or only slightly greater than the current permanent data partition size. To avoid this warning, increase the value of the <b>PermSize</b> attribute or set <b>PermSize</b> =0 to leave the permanent partition size unchanged.
6203	Overflow in converting data store or log file size from megabytes to bytes, or in converting log buffer size from kilobytes to bytes	The attribute Size, <b>MaxSize</b> and <b>LogFileSize</b> are expressed in megabytes. Overflow occurred when converting them to bytes.
6206	Heap is full	This error indicates that the data store's allocation structures are full. Try freeing any items possible and/or compacting the data store. See "ttCkptBlocking" in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> . Disconnecting all connections and reconnecting may also free up some space.
6212	MemoryLock connection attribute not supported on this platform	The <b>MemoryLock</b> connection attribute is supported only on select platforms.
6213	Could not shmget the user-defined segment	Could not shmget the user-defined segment For HP-UX only, the shmget system call failed for the user-defined shmkey.
6214	Could not start user-defined segment	For HP-UX only, shmctl system call with IPC_STAT as the cmd parameter failed for the user-defined shmkey.
6215	User-defined segment too small	For HP-UX only, the size of the user-defined shared memory segment is less than the size needed by the data store.
6216	User-defined segment attach count not zero	For HP-UX only, one or more processes are attached to the user-defined shared memory segment. The attach count must be 0.
6220	Permanent data partition free space insufficient to allocate <byte_count> bytes of memory	This error is pushed following error 802 and indicates the partition in which memory has been exhausted.

6221	Temporary data partition free space insufficient to allocate <byte_count> bytes of memory	This error is pushed following error 802 and indicates the partition in which memory has been exhausted.
6222	Permanent data partition in use size has exceeded PermWarnThreshold	This warning is returned when a memory allocation in the permanent data partition causes the threshold to be exceeded, and memory threshold warnings have been enabled by the <a href="#">ttWarnOnLowMemory</a> built-in procedure.
6223	Temporary data partition in use size has exceeded TempWarnThreshold	This warning is returned when a memory allocation in the temporary data partition causes the threshold to be exceeded, and memory threshold warnings have been enabled by the <a href="#">ttWarnOnLowMemory</a> built-in procedure.
6226	Ignoring value requested for first connection attribute '<attribute_name>' -- value currently in use: <used_value>, requested value: <requested_value>	If you enter more than one value for a First Connection attribute in the same connection string, or if you attempt to connect to a data store with a different value than that given in the first connection to the data store, TimesTen ignores the second value and returns this warning.
6228	Invalid value (<specified_value>) for <attribute_name> connection attribute -- value must be <correct_value(s)>	The value specified for the named connection attribute is invalid. Use the correct value, as indicated. The TYPEMODE connection attribute cannot be modified once a data store has been created. To change the type mode of a data store, you are required to destroy and recreate the data store with a changed type mode.

## Errors 7000 - 7999

Error number	Error or warning message	Details
7000	SQL statement exceeds the limit of <limit> table references	The number of tables referenced in the SQL statement has exceeded the allowed maximum.
7001	User authentication failed	Authentication using the user and password information supplied has failed. Check the user and password information and retry.
7002	No current user to use as default <user_name>	Cannot find current user name from the operating system.
7003	Value is not a valid float	Floating-point values provided for FLOAT columns can only contain an optional sign (+ or -), followed by the digits 0-9 and an optional decimal point or exponential notation character between the digits.
7004	Value is not a valid double	Floating-point values provided for DOUBLE PRECISION columns can only contain an optional sign (+ or -), followed by the digits 0-9 and an optional decimal point or exponential notation character between the digits.
7005	Procedure <procedure_name> not found	Attempted to call an ODBC procedure that does not exist.
7006	Bad argument supplied	Argument value is not valid. Check the description of the relevant procedure in the manual and retry.
7007	Required argument omitted	In the call to the TimesTen built-in procedure, a required parameter was not being passed. " <a href="#">Built-In Procedures</a> " in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> .
7008	Statement forbidden for read-only connections	This operation is not permitted on a read-only table.
7009	Too many parameters for procedure <procedure_name>	In the call to the TimesTen built-in procedure, more parameters were passed than was expected.

7011	Procedure <procedure_name> failed	The procedure failed. Additional errors are returned indicating the reason for this failure.
7012	Illegal attempt to update system table <table_name>	Cannot destroy, insert into, delete from or update a system catalog table or index.
7013	Error while scanning SQL statement	On a Windows or Linux system, the scanner detected an error in the SQL statement. The text of the error found is included in the message. An “input buffer overflow” error text indicates that the length of a string literal has exceeded a platform-dependent internal buffer limit. Any other error text indicates an unexpected internal error condition.
7014	Fixed size of command argument too large	The length of the input argument row descriptor has exceeded the maximum of 8,400. Command should use fewer (or shorter) arguments.
7015	System table cannot be used in index creation	This error occurs when an attempt has been made to use the CREATE INDEX statement with system tables. The CREATE INDEX statement cannot be used with system tables.
7017	Unknown optimizer flag <flag_name>	The name of the flag provided to the optimizer is invalid. See <a href="#">ttOptSetFlag</a> for the complete list of flags.
7018	Cannot create user objects with owner SYS	Cannot explicitly create a table with the owner SYS, which is used for TimesTen system tables.
7019	Index owner must match table owner <owner_name>	An attempt is made to create an index whose owner is different from that of its underlying table.
7020	Durable commits not available with logging to disk disabled	An attempt is made to perform a durable commit to a log that is not writable.
7022	Recovery must increase size of permanent data partition; please specify a permanent partition size of at least <megabyte_count> megabytes	The redo log indicates that a grow operation took place subsequent to the most recent checkpoint.

7023	Unable to rebuild nonpersistent structures during redo (error at step <number>)	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
7024	Bad sample string ('string'). Format is '<int> ROWS' or '<float> PERCENT'	The sample string specified does not have the correct format.
7025	Illegal use of reserved keyword <keyword>	Application used a keyword that is reserved by TimesTen. For a list of reserved words, see <a href="#">"Reserved Words"</a> in the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
7026	Illegal attempt to alter system table '<table_name>'	Applications cannot modify TimesTen system tables. System tables are identified by the owner SYS or TTREP. If you are attempting to alter a table that has a name similar to a TimesTen system table, explicitly specify the owner name.
7027	Unable to evaluate index key due to multiple warnings	If possible, rewrite the expression to avoid warnings, so that the value can be inserted into the index successfully.
7028	Table names must contain at least one character	The name of a table must have a least one character. Rename the table and retry the operation.
7029	Index names must contain at least one character	The name of an index must have at least one character. Rename the index and retry the operation.
7050	Undefined trace component '<component_name>'	Specified a trace component that is not defined.
7051	Error in setting-up TimesTen traces: '<trace_names>'	Invalid trace command or function, or unable to create trace output file.
7052	Cannot disable thread support after it has already been enabled	Application tried to disable multithreading support even though it had already turned multithreading support on.
7053	Cannot enable thread support after it has already been disabled	Application tried to enable multithreading support even though it had already turned multithreading support off.

## Errors 8000 -8999

Error number	Error or warning message	Details
8000	No primary or unique index on non-nullable column found for replicated table <owner>.<table_name>	To be replicated, a table must have a unique index over non-nullable columns. See " <a href="#">Table requirements and restrictions</a> " in the <i>TimesTen to TimesTen Replication Guide</i> for details.
8001	Attempt to read invalid LSN log record	The LSN provided does not exist. See " <a href="#">About XLA bookmarks</a> " in the <i>Oracle TimesTen In-Memory Database C Developer's and Reference Guide</i> for information on bookmarks.
8002	Cannot drop replicated table, index, or sequence	TimesTen Replication prevents tables, indexes, and sequences from being dropped when they are being used for replication. To drop such a table, index, or sequence, stop the replication agent, drop the replication scheme with the <a href="#">DROP REPLICATION</a> statement. Then drop the table, index, or sequence.
8003	Update older than TimeStamp of existing row	The timestamp of update is older than that of the row in the data store. The update was rejected.
8004	Column <owner>.<table>.<column> cannot be used for replication timestamp checking if in an index or added by ALTER TABLE; and must be binary(8) with NULL values allowed	The Timestamp column type must be BINARY(8) NULL, cannot be in the index and must be in the original unaltered table.
8005	Invalid update rule for timestamp-based conflict checking	Invalid flag value used by a replication stored procedure.
8006	Application must set timestamp column with 'UPDATE BY USER'	The application has not set the timestamp column. The insert or update is rejected. Set timestamp or allow TimesTen to automatically set timestamp.



8007	Cannot change aging attributes or add/drop aging policy of replicated tables while replication Agent is running	The replication agent must be stopped before attempting to perform changing aging policies or attributes on replication tables.
8009	Transaction Log API Buffer size too small or too large	The transaction log API buffer size is too small or too large for the platform. Choose a different buffer size. See <a href="#">"Managing the log on a replicated data store"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for details.
8010	Unable to attach to XLA segment	Unable to attach to the shared memory segment used to store the transaction log updates.
8011	Unable to re-configure active XLA segment	The transaction log buffer size cannot be changed in an active transaction.
8012	Table with given ID not found	Table with the user-specified ID does not exist in the data store.
8013	Attempt to specify illegal version	The version specified is not a valid TimesTen release version.
8016	No replication buffer configured	The transaction log buffer has not been configured to store updates. See <a href="#">"Configuring the staging buffer"</a> in the <i>Oracle TimesTen In-Memory Database C Developer's and Reference Guide</i> for information on configuring the staging buffer.
8017	Foreign table has <number> columns while local table has <number> columns	The tables being compared differ in the number of columns.
8018	Foreign table indexed on different columns	The tables being compared have indexes on different sets of columns.
8019	Foreign and local table differ on column <type> type	The tables being compared do not match on the column types.
8020	Inconsistent row in update description	Bad row format in transaction log update.
8021	System table ID invalid	User specified system table ID does not exist.

8022	Operation not permitted on non-shared data store	Operation permitted on shared data store only.
8023	Table row does not have expected value	The contents of the row do not match the expected values in the transaction log update.
8024	Illegal XLA record type	The XLA record is invalid or unsupported.
8025	Replication log threshold limit reached at master. The replication state for this subscriber data store is now set to FAILED. This store is not in sync with the master	The replication state for this data store has been set to FAILED state by a replication peer. This happens when the amount of log that the peer is holding for the data store exceeds a user configurable threshold. See " <a href="#">Setting the log failure threshold</a> " and " <a href="#">Subscriber failures</a> " in <i>TimesTen to TimesTen Replication Guide</i> for further details.
8027	Network load of data store not allowed because connection was reset	Network error occurred while running a <b>ttRepAdmin</b> -duplicate operation. Check your network connections. Make sure that the remote Replication Agent is still running. If not, restart the Replication Agent.
8028	Network load of data store timed out	Network timed out while running a <b>ttRepAdmin</b> -duplicate operation. Check your network connections. Make sure that the remote Replication Agent is still running. If not, restart the Replication Agent.
8029	Persistent transaction log API bookmark already in use	Only one persistent transaction log API connection can use a persistent transaction log API bookmark. Close the connection using the bookmark or set up a new bookmark.
8031	Persistent transaction log API log sequence number is invalid	The transaction log API log sequence number is not a valid one. It is either not provided by the API or it is in the range already acknowledged by the connection.
8032	Stale post handle	The replication transmitter accessed a synchronization object, used for RETURN service processing, that no longer applies to this particular service request. This is an internal condition that is externalized only as a part of the user error log warning "Attempt to awaken connection <connection_id> failed."

8033	Invalid post handle	The replication transmitter accessed a synchronization object, used for RETURN service processing, that was no longer a valid synchronization object. This is an internal condition that is externalized only as a part of the user error log warning "Attempt to awaken connection <connection_id> failed."
8034	Record cannot be expressed in SQL	This error is returned when an XLA record presented to <b>ttXlaGenerateSQL</b> does not translate into SQL.
8035	Persistent XLA requires disk based logging	<b>Logging</b> to disk is required for persistent transaction logging API. See "XLA concepts" in the <i>Oracle TimesTen In-Memory Database C Developer's and Reference Guide</i> for more information.
8036	Parameter <parameter> value not in valid range	The parameter is not in the valid range. Change the parameter.
8037	Table definition of record differs from the table definition in the data store	The table definition of the record at the time of its creation differs from the table definition of the record in the data store. Since the definitions do not match, the record cannot be interpreted by the data store.
8038	Operation not permitted on system table	You cannot perform the attempted operation on a SYS table. The operation is only permitted on a user-defined table.
8039	Attempt to drop replication timestamp column from table <table_name>	The timestamp column is used by TimesTen to resolve conflicts. This column cannot be dropped.
8040	No free slots in replCTNArr	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
8041	Invalid replCTNArr slot	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
8042	ReplCTNArr slot is not allocated	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

8043	Materialized views cannot be defined in a replication scheme	An attempt was made to replicate a materialized view. Only detail tables can be replicated. See <a href="#">"Replicating materialized views"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for more information.
8044	To avoid data inconsistency, copy the data store from a replication subscriber using 'ttRepAdmin -duplicate'. Use ForceConnect=1 in the connection string to override this restriction	When RETURN RECEIPT replication is used with the TRANSMIT NONDURABLE option, a failed master data store is allowed to recover only by restoring its state from a subscriber data store using the -duplicate option of <a href="#">ttRepAdmin</a> command. Use the <a href="#">ForceConnect</a> attribute to override this restriction.
8046	The input old value row does not match the data store row	The old value row of the XLA update being applied does not match the value of the row in the data store.
8047	Connection is currently dedicated to XLA exclusively	The connection is in use by XLA. No direct ODBC calls may be made on this connection until the XLA connection is closed.
8049	Commit ticket number will wrap around	The commit ticket number for replication will wrap around with this operation.
8050	The alter table operation on a replicated table needs to be in a transaction of its own	The <a href="#">ALTER TABLE</a> statement for a replicated table needs to be in a transaction of its own and cannot be preceded or followed by any other SQL statement.
8051	The alter table operation on a replicated table cannot be in a two safe by request transaction	Cannot use <a href="#">ALTER TABLE</a> to alter replicated tables in a RETURN TWOSAFE BY REQUEST transaction. Rollback the transaction.
8052	Cannot commit transaction that involves commit to Oracle and TWOSAFE replication handling	Cannot commit RETURN TWOSAFE transactions on tables in a TimesTen cache group.
8056	Temporary tables cannot be defined in a replication scheme	A temporary table was used in a replication scheme. Temporary tables cannot be used in a replication scheme.
8059	All DDLs on a replicated table need to be in a transaction of their own	This error is returned when DDL operations on a replicated table are not present exclusively in a transaction of their own.

8060	Cannot specify replication timestamp column on a cached table	The user is not allowed to configure timestamp-based conflict resolution for replication on cached tables.
8061	Operation not permitted when the connection attribute ForceConnect is set to 1	The connection attribute <b>ForceConnect</b> must be set to 0 on any connections that attempt these replication operations.
8062	Local store not in ACTIVE state	The state of the local store is not in the ACTIVE state for a store that is part of an active/standby replication scheme.
8063	Local store not completely quiesced	This error is returned when an active store in an active/standby replication scheme has pending updates that have not yet been replicated. Turn off local application updates and ensure that replication has sent all pending updates to the standby store to avoid this error.
8064	Table is already subscribed	A subscription attempt for the same table is being attempted twice.
8065	Table is not subscribed	The table is already unsubscribed from the XLA bookmark. There is no need to perform an unsubscribe operation.
8066	Cannot alter subscription	The XLA bookmark needs to be closed before this operation can be performed.
8067	Inconsistency detected in the COLUMN_HISTORY system table	The contents of the system table, COLUMN_HISTORY seem to be corrupted.
8068	Cannot drop a table or view that is subscribed by an XLA bookmark.	The table needs to be unsubscribed from every XLA bookmark to avoid this error.
8069	Operation only supported when the character set of the data store in which the record is generated matches that of the connected store	The operation is only supported when the character set of the source and destination store match.
8070	The specified XLA bookmark does not exist	The XLA bookmark does not exist. You can create a bookmark using the <b>ttXlaBookmarkCreate</b> built-in procedure.

8095	Truncate table not permitted when ttRepTransmitSet(0) has been invoked on the connection	The replication agent attempted to truncate a table when replication has been disabled on this connection. To allow table truncation, invoke the built-in procedure <b>ttRepTransmitSet</b> with argument 1.
8096	Alter table not permitted when ttRepTransmitSet(0) has been invoked on the connection	The replication agent attempted to alter a table when replication has been disabled on this connection. To alter a table, you must invoke the built-in procedure <b>ttRepTransmitSet</b> with argument 1.
8097	Error getting parent table during autorefresh bookmark lookup	This is a run-time error that indicates that a table that is part of an autorefreshed cache group is missing.
8098	This built-in is not permitted in an active standby pair scheme	The built-in procedure is not permitted in an active/standby scheme.
8099	2-safe operation not permitted with AutoCommit = 1.	RETURN TWOSAFE transactions are not permitted when AutoCommit is set to 1.
8100	Invalid parameter value passed in	Please check the validity of all parameters passed into the built-in procedure
8101	ELEMENT <element_name> specified more than once, being ALTER'ed or DROP'ed with ADD, already exists, or its owner (MASTER or PROPAGATOR) is already the owner for another ELEMENT with the same data store object.	Element names must be unique within a replication scheme. Also, one store cannot be a MASTER or PROPAGATOR more than once for any elements with the same underlying data store object. See <a href="#">"Defining replication elements"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8102	STORE <store_name> specified more than once	A store can be specified at most once in a STORE clause of a <b>CREATE REPLICATION</b> or <b>ALTER REPLICATION</b> statement. See <a href="#">"Setting STORE attributes"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8103	<attribute> specified more than once or already defined for STORE <store_name>	A store attribute can be specified at most once in a STORE clause of a <b>CREATE REPLICATION</b> or <b>ALTER REPLICATION</b> statement. See <a href="#">"Setting STORE attributes"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .

8104	ALTER or DROP ELEMENT for <element> following DROP	An ALTER ELEMENT clause cannot follow a DROP ELEMENT CLAUSE for the same element in an <a href="#">ALTER REPLICATION</a> statement. See the <i>TimesTen to TimesTen Replication Guide</i> .
8105	STORE <store_name> does not have a MASTER, PROPAGATOR, or SUBSCRIBER role for any ELEMENT	It is permissible to define a STORE to a replication scheme without assigning it a replication role. However, doing this evokes this warning.
8106	STORE <store_name> specified as both owner and SUBSCRIBER for replication ELEMENT <element>	A store cannot subscribe to the same element for which it is either the MASTER or PROPAGATOR. See the <i>TimesTen to TimesTen Replication Guide</i> .
8107	Cannot specify both ELEMENT DATASTORE and ELEMENT TABLE or SEQUENCE since the former already covers all objects in the data store	When you specify ELEMENT DATASTORE, all tables are included in the statement. To only specify a particular table or sequence, remove the ELEMENT DATASTORE clause and use the ELEMENT TABLE or ELEMENT SEQUENCE clause. See "Defining replication elements" in the <i>TimesTen to TimesTen Replication Guide</i> .
8108	For TRANSMIT NONDURABLE, must use the ELEMENT <element_name> DATASTORE clause	Nondurable transmits require an ELEMENT DATASTORE clauses. See "Setting transmit durability on data store elements" in the <i>TimesTen to TimesTen Replication Guide</i> .
8109	Element <element_name> will not have any subscribers	No subscriber specified for the ELEMENT in the replication scheme. A replicated element must always have at least one subscriber. Either remove the element from the scheme or specify a subscriber for the element.
8110	Connection not permitted. This store requires Master Catchup.	Master catchup is required for the data store. New connections are disallowed until master catchup is complete.
8111	Connection not permitted. Master Catchup in progress.	Master catchup in progress. New connections not allowed until catchup is complete.
8112	Operation not permitted. Master Catchup not complete.	An update/insert/delete/alter to a replicated table is not permitted until master catchup is complete.

8113	Operation not permitted since replication DDL was performed in the transaction. Please commit/rollback the transaction.	Replication DDL should be in a transaction of its own. If an operation that is disallowed in the same transaction as replication DDL is attempted, this error is returned.
8114	Duplicate not permitted. Reason <reason>. Duplicate is only permitted from the ACTIVE store to the STANDBY store, from the STANDBY store to a SUBSCRIBER, or from the ACTIVE store to a SUBSCRIBER if the STANDBY store has failed.	It occurs when you are trying to perform a duplicate operation from a node in an ACTIVE STANDBY store to another and the source node is not in the correct state. The duplicate operation fails. Try duplicating from the correct store, or setting the state of the source store.
8118	Column <column_name> of table <owner>.<table_name> is longer than the maximum column size of <num> bytes when used with replication.	The specified column violates the max size limit for replicated columns. The message indicates the maximum limit.
8119	Set name operation skipped as the new name for the element (<element_name>) matches the current name.	The new name matches the existing name for the element. If you are attempting to change the element name, supply a unique name to the set operation.
8120	The TRANSMIT NONDURABLE clause can only be used with a DATASTORE element	This store attribute can only be specified for data store replication elements.
8121	localhost, 127.0.0.1, ::1 or 0:0:0:0:0:0:0:1 cannot be used as a host identifier.	The IP address 'localhost' or any of its aliases cannot be used as a host identifier.
8122	The replication scheme cannot begin with '_'	An attempt was made to create a replication scheme which begins with '_'.
8123	An ACTIVE STANDBY PAIR scheme does not exist	ALTER ACTIVE STANDBY PAIR or DROP ACTIVE STANDBY PAIR was attempted for an active standby pair that does not exist.



8124	Store <i>DSN</i> has been specified as an ACTIVE STANDBY PAIR node and a SUBSCRIBER	CREATE ACTIVE STANDBY PAIR designates a specific data store as both a master data store and a subscriber data store. For example: CREATE ACTIVE STANDBY PAIR rep1, rep2 SUBSCRIBER rep1
8125	The store cannot be dropped from the ACTIVE STANDBY PAIR scheme because it is a master node	An attempt was made to drop a master data store that is part of an active standby pair.
8126	An ACTIVE STANDBY PAIR scheme already exists and must be the only replication scheme for the store.	A data store cannot be in two active standby pairs. An attempt was made to create an active standby pair using a data store that is already in an active standby pair.
8127	Cannot create ACTIVE STANDBY PAIR scheme because another replication scheme already exists.	An attempt was made to create an active standby pair, but a replication scheme already exists.
8128	Store <i>DSN</i> is already in the ACTIVE STANDBY PAIR scheme.	ALTER ACTIVE STANDBY PAIR attempts to add a data store that is already in the active standby pair.
8129	Store <i>DSN</i> : The "attribute_name" attribute cannot be set for <i>DSN</i> in an ACTIVE STANDBY PAIR scheme.	Only the PORT and TIMEOUT attributes can be set for subscribers.
8130	CREATE ACTIVE STANDBY PAIR must only be run on one of the MASTER nodes.	The CREATE ACTIVE STANDBY PAIR statement must be run from one of the nodes on which a master data store resides. For example, CREATE ACTIVE STANDBY PAIR rep1, rep2 SUBSCRIBER rep3 must be run from the node on which rep1 or rep2 resides.
8131	Table <i>owner.name</i> is already part of the replication scheme, or is in the process of being included	An attempt is made to add a table to a replication scheme, but the table is already part of the replication scheme or is already in the process of being added to the replication scheme.

8132	<code>{INCLUDE EXCLUDE}</code> <code>element_name</code> cannot be used on TABLE element <code>element_name</code> . The operation is for DATASTORE level elements only	An attempt was made to include or exclude a table-level element.
8133	You cannot <code>{include exclude}</code> table <code>owner.name</code> because it is part of a cache group. Use <code>{INCLUDE EXCLUDE}</code> CACHE GROUP instead.	An attempt was made to include or exclude a cache group table.
8134	Store <code>DSN</code> is not a MASTER for any element.	The ALTER ELEMENT statement did not find a matching element name in the data store.
8135	<code>Object_type owner.name</code> is not part of DATASTORE element <code>element_name</code> , or is in the process of being excluded	An attempt was made to exclude a table or sequence that is not in the replication scheme or that is already in the process of being excluded.
8136	All tables or cache groups cannot be excluded from element <code>element_name</code> . Use DROP ELEMENT instead.	An attempt was made to exclude all tables or cache groups from an element. There must be at least one object in an element.
8137	Cannot exclude <code>&lt;Object_type&gt;</code> <code>&lt;owner.name&gt;</code> because it is not in the Active Standby scheme.	An attempt was made to exclude a table or sequence from the data stores by using an ALTER ACTIVE STANDBY PAIR...EXCLUDE statement, but the table or sequence is not in the active standby pair.
8138	All tables or cache groups cannot be excluded from the ACTIVE STANDBY PAIR scheme	An attempt was made to exclude all tables and cache groups from the data stores in an ALTER ACTIVE STANDBY PAIR...EXCLUDE statement.
8139	The specified peer store is not in the standby state	An operation was attempted for a store that was not in a standby state. The operation is only permitted on stores that are in the standby state.
8140	Scheme does not exist or inconsistency detected in the local ACTIVE STANDBY PAIR scheme	Error returned for an store with an inconsistent or corrupted active standby replication scheme.

8141	Local store not eligible to be set to the active state	Local data store that is part of an active standby pair is not eligible to be set to the active state.
8142	Error checking on store header attributes	An error occurred while reading the data store header for attributes related to the active standby replication scheme.
8143	The standby can only be duplicated from the active	A data store that is in the standby state for an active standby pair can be duplicated only from the active data store.
8144	Duplicate only allowed from a standby store or from an active when the standby has failed	Subscriber data stores in a active standby pair can be duplicated only from the standby data store or from the active data store when the standby data store is in a failed state.
8145	The local store needs to be in the active state for this operation.	A data store that is part of an active standby pair must be in the active state.
8146	There can be only one INCLUDE or EXCLUDE clause for <object_type>.	There can be only one INCLUDE or EXCLUDE clause for an object type (cache group or table). For example, the following is invalid: ALTER ACTIVE STANDBY PAIR INCLUDE TABLE t EXCLUDE table u.
8147	INCLUDE and EXCLUDE can only be used on DATASTORE level elements.	An attempt was made to use an INCLUDE or EXCLUDE clause with a table element definition in a CREATE TABLE or CREATE ACTIVE STANDBY PAIR statement.
8148	Host name exceeds limit of <num> characters	The size exceeds the maximum permitted limit. The message indicates the maximum limit.
8149	Data store name exceeds limit of <max_num> characters	The size exceeds the maximum permitted limit. The message indicates the maximum limit.
8150	This change is not allowed while the replication agent for data store <data_store_name> is running. Please stop the replication agent to perform this change.	Most replication scheme changes are not allowed while the Replication Agent is in the start state. For a list of supported scheme changes, see <a href="#">"Altering Replication" in the TimesTen to TimesTen Replication Guide.</a>

8151	<code>&lt;owner&gt;.&lt;name&gt;'s replication role disallows the requested operation</code>	Replication denies write access to a data store object underlying a replication element for which it is a SUBSCRIBER or PROPAGATOR, provided that the local store is not the MASTER for any other element with the same underlying data store object.
8152	<code>No ODBC type for column &lt;owner&gt;.&lt;name&gt;.&lt;column&gt;</code>	The type for a column in a replicated table could not be mapped to a known ODBC data type. See <a href="#">"Data Types"</a> in the <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> .
8153	<code>Store &lt;store_name&gt; already owns (is MASTER or PROPAGATOR of) specified ELEMENT(s)</code>	It is permissible to use <a href="#">ALTER REPLICATION</a> <a href="#">ALTER ELEMENT SET OWNER</a> to reassign an element to its current owner (MASTER or PROPAGATOR). However, doing this evokes this warning
8154	<code>REPLICATION scheme &lt;owner&gt;.&lt;name&gt; already exists</code>	The <a href="#">CREATE REPLICATION</a> statement requires that each new replication scheme specified to a store have a different <code>&lt;owner&gt;.&lt;name&gt;</code> from any replication scheme already defined there.
8155	<code>ELEMENT &lt;element_name&gt; already has SUBSCRIBER &lt;subscriber_name&gt;</code>	A store can subscribe to a replication element only once. See <a href="#">"Defining replication elements"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8156	<code>Internal error: Column &lt;column_name&gt; for ELEMENT &lt;element_name&gt; already defined for SUBSCRIBER &lt;subscriber_name&gt;</code>	Replication caught itself trying to re-add column information for a replicated table. This is an internal error. Contact TimesTen <a href="#">Technical Support</a> .
8157	<code>No elements &lt;element_name&gt; found for REPLICATION &lt;owner&gt;.&lt;name&gt;</code>	A replication element could not be found for the requested operation. This is a warning when the request is for an indefinite number of elements ( <code>* IN &lt;store_name&gt;</code> ). It is an error when the statement specifies one particular element.
8158	<code>Failed to retrieve LSN data for initializing PEER</code>	A MASTER or PROPAGATOR store could not get its local LSN to initialize a (subscribing) peer store.

8159	No SUBSCRIBER PEER information found for REPLICATION <owner>.<name> for MASTER or PROPAGATOR store <store_name>	It is permissible for there to be no peers to delete for a <a href="#">DROP REPLICATION</a> request. However, doing this evokes this warning.
8160	REPLICATION <owner>.<name> not found	The local store does not know about the replication scheme specified in an <a href="#">ALTER REPLICATION</a> or <a href="#">DROP REPLICATION</a> request. (It is not registered in the <a href="#">TTREP.REPLICATIONS</a> table.)
8161	No STORE <store_name> found for REPLICATION <owner>.<name>	Data store was not found for the STORE specified in an <a href="#">ALTER REPLICATION ALTER STORE</a> or <a href="#">DROP REPLICATION</a> request.
8162	No subscriptions found for ELEMENT <element_name> in REPLICATION <owner>.<name>	No subscriptions could be found for an element in an <a href="#">ALTER REPLICATION DROP ELEMENT</a> , <a href="#">ALTER REPLICATION ALTER ELEMENT DROP SUBSCRIPTION</a> , <a href="#">ALTER REPLICATION ALTER ELEMENT SET OWNER</a> or <a href="#">DROP REPLICATION</a> request.
8163	Failed to retrieve table or column descriptor for table <owner>.<name>	While trying to create a replication element for <a href="#">CREATE REPLICATION</a> or <a href="#">ALTER REPLICATION ADD ELEMENT</a> , this information about the underlying table could not be retrieved.
8165	Replication schema is inconsistent	Replication has noticed an inconsistency in its schema. This is an internal error. Contact TimesTen <a href="#">Technical Support</a>
8166	Log not writeable or transaction not initiated by system	Replication DDL requests require that transaction logging be enabled for transaction rollback. This error is returned if logging is disabled.
8167	Cannot determine system table attributes (e.g. REPACCESS) for <table> from replication role	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
8168	Cannot set system table attributes (e.g. REPACCESS) for <table> from replication role	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

8169	Store <transmitting_store> ON <ransmitting_host> already transmits to store <receiving_store> ON <receiving_host>; at most one path allowed from one store to another	An attempt was made to configure a replication scheme with an element that has the same MASTER or PROPAGATOR and SUBSCRIBER as an element in another replication scheme. Two such elements must reside in the same replication scheme. See <a href="#">"Defining replication elements"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8170	Receipt or commit acknowledgement not returned in the specified timeout interval	A subscriber with RETURN RECEIPT services did not acknowledge receipt of the just-completed transaction within the current connection's time limit. You can adjust the time limit may with a call to <a href="#">ttRepSyncGet</a> , as described in <a href="#">"Managing return service timeout errors and replication state changes"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8171	Illegal to replicate a system table <system_ table_name>	At attempt was made to specify as a replicated object one of the SYS.* or TTREP.* tables that the system creates and maintains. These tables cannot be replicated.
8172	The store <store_name> ON <host_name_1> is already specified with an equivalent host name as <store_name> on <host_name_2>	Two different forms of host name were used to refer to one particular store in a replication scheme. The same form of host name must be consistently used to refer to any one data store.
8173	Replication may not be configured while XA transactions are active	TimesTen Replication is not supported with XA transactions.
8174	<attribute> specified more than once	You have specified more than one value for a data store attribute. Remove one of the instances of the attribute specification.
8175	Report file name <report_name> cannot be resolved	An attempt to configure a conflict resolution report file to a non existent directory failed. Use a valid path to the report file

8176	Conflict checking configuration conflict between elements <element_name> and <element_name> with the same underlying table	TimesTen cannot configure a partial data store replication because a replication scheme already exists that covers the entire data store. Use <a href="#">DROP REPLICATION</a> to drop the existing replication scheme and <a href="#">CREATE REPLICATION</a> to create a new replication scheme.
8177	Executing store (<store_name>) not permitted to <operation_name>	TimesTen cannot drop the replicating element because the specified replication scheme covers the entire data store and the TRANSMIT NONDURABLE option is set. If needed, drop the replication scheme and use a <a href="#">CREATE REPLICATION</a> statement to create a new replication scheme.
8178	Cannot set a subscriber to state code <code_number>	TimesTen cannot specify the TRANSMIT NONDURABLE option for the replication scheme because the scheme does not cover the entire data store. The NONDURABLE option must apply to the entire data store. If needed, drop the replication scheme and use a <a href="#">CREATE REPLICATION</a> statement to create a new replication scheme, using the ELEMENT DATASTORE clause with the TRANSMIT NONDURABLE option. See " <a href="#">Setting transmit durability on data store elements</a> " in the <i>TimesTen to TimesTen Replication Guide</i> .
8179	Cannot create duplicate store: store already exists	This error message indicates that the user is attempting to overwrite an existing data store during an operation to duplicate data stores.
8180	Full versus partial replication conflict with an existing replication scheme on data store <data_store_name>	When a DATASTORE element is used on a particular data store for replication, no other element type can be used either in the same scheme or in any other scheme. See " <a href="#">Defining data store elements</a> " in the <i>TimesTen to TimesTen Replication Guide</i> .

8181	Cannot create table or alter replication because data store <data_store_name> is covered by a full datastore replication scheme	When a DATASTORE element for replication is present in a data store no other new element type can be introduced. See <a href="#">"Defining data store elements"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8182	Cannot configure conflict checking on DATASTORE element	To configure conflict resolution for replication DATASTORE elements cannot not be used. Replication must to be configured for each individual table. See <a href="#">"Replication conflict detection and resolution"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8183	Cannot alter element because it is owned and managed by the system	<a href="#">ALTER REPLICATION</a> cannot be run on elements created as part of the DATASTORE element configuration. <a href="#">ALTER REPLICATION</a> must be run on the DATASTORE element itself.
8184	Attempt to configure <i>replication_type</i> replication for a store with no permanent objects	An attempt was made to configure data store-level replication or active standby replication with an empty data store.
8185	Attempt to exceed limit for return receipt receivers	Number of subscribers to receive RETURN RECEIPT replication updates exceeds the system specified limit.
8186	Replication agent not responding to Return Receipt transactions	The Replication Agent is not processing return receipt replication updates.
8187	A Return receipt transaction has not been executed on this connection	A transaction with return receipt replication updates has not been run on the connection.
8188	Transaction handle not valid	The handle for examining the status of a transaction with RETURN RECEIPT replication is not valid.
8189	Transaction token subscriber information not available	The replication subscriber cannot be found in the replication scheme.



8190	Host name <host> could not be resolved	The host name specified cannot be resolved on this host. Check the host name for correctness or make changes to the network host name lookup. See <a href="#">"Configuring host IP addresses"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8191	Store not involved in a replication scheme	<p>The Replication Agent does not start if the data store does not participate in any replication scheme. Either no replication scheme is defined on this store or the store is not part of any replication scheme.</p> <p>If a replication scheme is defined, verify that the name of each data store involved in replication matches the names specified in the <b>DataStore</b> attribute in their respective DSN definitions. This name may be different from the names specified for the <b>Data Source Name</b> attribute in the DSNs.</p> <p>This error might also occur if the replication agent cannot determine that the current running host is involved in the specified replication scheme. Confirm that you have correctly identified your data store hosts, as described in <a href="#">"Configuring host IP addresses"</a> in the <i>TimesTen to TimesTen Replication Guide</i>.</p>
8192	Dropping/adding a foreign key that references a replicated table is not allowed while the replication agent for data store <store_name> is running. Please stop the replication agent to perform this operation	You cannot add or drop a foreign key in a table that references a replicated table. Stop the replication agents, add or drop the foreign key in the table that references the replicated table, and restart the replication agents. See <a href="#">"Starting and stopping the replication agents"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for details on how to stop and restart the replication agents.
8193	The TWOSAFE subscriber attribute is only permitted on a DATASTORE element.	Attempt to configure RETURN TWOSAFE with a table element. Change the ELEMENT type to DATASTORE or remove RETURN TWOSAFE from the replication scheme. See <a href="#">"RETURN TWOSAFE"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for details.

8194	The TWOSAFE subscriber attribute is not permitted on a propagator element.	Attempt to configure RETURN TWOSAFE for a propagator data store. The RETURN TWOSAFE service can't be used in a propagation scheme. See " <a href="#">RETURN TWOSAFE</a> " in the <i>TimesTen to TimesTen Replication Guide</i> for details.
8195	The TWOSAFE subscriber attribute requires an exclusive bi-directional configuration.	Attempt to configure RETURN TWOSAFE in an invalid replication scheme. RETURN TWOSAFE can only be used in a bi-directional scheme between a master and a single subscriber data store. See " <a href="#">RETURN TWOSAFE</a> " in the <i>TimesTen to TimesTen Replication Guide</i> for details.
8196	Remote application of the transaction ran into error : <error_description>. Please rollback the transaction.	The RETURN TWOSAFE transaction ran into an error when it was applied on the subscriber. The transaction was not applied to the subscriber and needs to be rolled back on the master.
8197	Operation not permitted once commit processing has begun	A commit call has already been issued for this RETURN TWOSAFE transaction. Therefore the operation is not permitted.
8198	A 2-safe transaction has not been executed on this connection	Attempt to get the replication status of a RETURN TWOSAFE transaction when none has been executed.
8199	A 2-safe or return receipt transaction has not been executed on this connection	The above is usually returned when attempting to get the replication status of a RETURN TWOSAFE or RETURN RECEIPT transaction when none has been executed.
8200	Attempt to drop all columns in table	An application cannot drop all columns in a table. Consider using <a href="#">DROP TABLE</a> to drop the table instead.
8201	Column is part of the table's primary key	An application cannot drop a column that is part of a primary key. Consider dropping and recreating the table.
8202	Column is part of a foreign key	An application cannot drop a column that is part of a foreign key. Consider dropping and recreating the table.

8203	Attempt to drop indexed column	Application attempted to drop an indexed column in a table. Consider dropping the index and then dropping the column.
8204	Columns have been added to table too many times	The operation is not permitted because the table would have more than the maximum number of partitions. See " <a href="#">System Limits</a> " in <i>Oracle TimesTen In-Memory Database SQL Reference Guide</i> for the maximum number of partitions. Consider rebuilding the table, either using <a href="#">INSERT SELECT</a> or by using the <a href="#">ttBulkCp</a> utility.
8206	Invalid parameter value STANDBY passed in. The command failed.	Indicates that an invalid input parameter has been passed in to an active standby pair.
8210	Table reference of <table_name> is ambiguous	More than one table with a matching foreign key constraint was found. Qualify all references to other tables with an owner name.
8211	Table <table_name> is not a member of the cache group	No tables external to the cache group may be referenced by a foreign key constraint from within the cache group. See " <a href="#">Defining cache group tables</a> " in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8212	Multiple parents defined for table <table_name>	Foreign keys for a cache group table have been found to refer to more than one table. All foreign keys for a cache group table may only refer to a single table within the same cache group. See " <a href="#">Defining cache group tables</a> " in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8213	A primary constraint is not defined for table <table_name>	All tables within a cache group must have a primary key. See " <a href="#">Defining cache group tables</a> " in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8214	Cache source <cache_name> is not supported	Cache group tables currently work only with Oracle data sources.
8217	Invalid duration value	A cache group duration must be a positive integer.

8220	Table <table_name> is both read only and propagated	Cache group tables may not be simultaneously marked as both <b>READONLY</b> and <b>PROPAGATE</b> . See "Cache table attributes" in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8221	No parent table found	No table in the cache group was found to be a root table. Only one table in a cache group may have any foreign key constraints. All other tables in a cache group must refer to a single table within the same cache group. See "Defining cache group tables" in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8222	Multiple parent tables found	Multiple potential root tables were found within the cache group. Only one table in a cache group may have foreign key constraints. All other tables in a cache group must refer to a single table within the same cache group. See "Defining cache group tables" in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8223	A referenced primary key is not found in the associated parent table	The referenced primary key was not found in the cache group. See "Defining cache group tables" in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8224	Cache group <cache_name> already exists	Attempting to create a cache group which already exists.
8225	Table <table_name> is read only	Tables within a cache group which are marked as <b>READONLY</b> may not be updated.
8226	Column <column_name> is read only	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
8227	Cache group <cache_name> not found	The referenced cache group does not exist.
8228	Cannot drop cache group table <table_name>; please use DROP CACHE GROUP instead	Tables within a cache group may not be explicitly dropped using the <b>DROP TABLE</b> statement.
8229	Memory threshold value must be between 0 and 100	The cache group aging memory threshold must be a percentage value between zero and 100.
8230	Aging interval value must be greater than zero	The cache group aging interval must be a value greater than zero.

8231	Cache groups are not supported on this platform	Cache groups are not supported in this version of the product. For a list of supported platforms see the <i>TimesTen Cache Connect to Oracle Guide</i> .
8232	Oracle PassThrough not supported on this platform. PassThrough value must be set to 0	The <b>PassThrough</b> attribute is not supported on this platform. For a list of supported platforms see the <i>TimesTen Cache Connect to Oracle Guide</i> .
8233	PassThrough value must be between 0 and 3	Incorrect value for the <b>PassThrough</b> attribute. Reset to a value between 0 and 3, as described in "Setting a passthrough level" in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8234	PassThrough command is no longer valid. One possible cause is creation of a new table on the TimesTen data store	After creating a table in TimesTen, including a cache group table, all prepared passthrough statements are invalidated, until repared. This error indicates that the application is trying to use an invalidated statement. The application needs to prepare the passthrough statement after creating a table or cache group.
8235	Number of WITH ID keys values does not match the primary key columns for cache group <cache_name>	The number of values given in the WITH ID clause does not match the number of primary key columns defined on the root table of the cache group.
8236	Invalid commit value	A commit interval for a <b>LOAD CACHE GROUP</b> or <b>MERGE</b> statement on a cache group must be a positive integer value.
8237	Cache group WHERE clauses must be less than <number> bytes long	Each WHERE clause of a cache group may not exceed the maximum byte length specified in the error message.
8239	PROPAGATE syntax can only be used once in statement	This is a syntax error for the <b>CREATE CACHE GROUP</b> statement. You specified a <b>PROPAGATE</b> or <b>NOT PROPAGATE</b> on a cache table that already has been specified as either <b>PROPAGATE</b> or <b>NOT PROPAGATE</b> . Check the syntax and remove the redundant or contradictory <b>PROPAGATE</b> or <b>NOT PROPAGATE</b> specification.

8240	READONLY syntax can only be used once in statement	This is a syntax error for the <b>CREATE CACHE GROUP</b> statement. You specified the <b>READONLY</b> keyword twice for the same cached table. Remove one of the instances of <b>READONLY</b> .
8242	Index on <name> column not supported	You cannot create an index on column <i>name</i> because it is a system-created column.
8243	Invalid AUTOREFRESH interval value	The specified AUTOREFRESH INTERVAL is invalid. It needs to be a positive integer.
8244	Cannot alter AUTOREFRESH status of a cache group which was not initially created with AUTOREFRESH	For a cache group's AUTOREFRESH setting to be altered, it must be created with the AUTOREFRESH clause. For example, you cannot create a cache group without an AUTOREFRESH clause and later try to modify it to AUTOREFRESH STATE ON.
8247	The ttCGGenSQL built-in procedure requires that the cache group was initially created with AUTOREFRESH	The <b>ttCacheSqlGet</b> built-in procedure cannot be called on a cache group that was created without an AUTOREFRESH clause
8248	Cache group <cache_group_name> is not currently being autorefreshed	Either AUTOREFRESH state is off or AUTOREFRESH has been stopped because of a fatal error during refresh. Check user error log to find cause for refresh failure.
8249	Cache agent is shutting down autorefresh for cache group <cache_group_name>. Please try again	When AUTOREFRESH is deactivated either by dropping the cache group or by altering the state to off, the TimesTen cache agent takes some time before the AUTOREFRESH is completely shutdown. An application may not be able to reactivate (create the same cache group or alter the state to ON/PAUSE) that cache group while it is being shut down. The application needs to wait for AUTOREFRESH to completely shut down before it can be reactivated.
8252	Table <table_name> is both read only and not propagated	The cache group table, <i>table_name</i> , cannot be specified as both <b>READONLY</b> and <b>NOT PROPAGATE</b> . This error can occur if you try to create a READONLY cache group that contains a table that is specified as <b>NOT PROPAGATE</b> .

8253	Table <table_name> cannot have same name as an existing cache group	Cache groups and tables cannot have the same name. You will see this error when you try to create a cache group or a table that has the same name as another table or cache group. To correct the error, use a different name in the <b>CREATE CACHE GROUP</b> /TABLE statement.
8254	Flush fails; all tables are either propagated or read only	This error occurs if you use <b>FLUSH CACHE GROUP</b> on a cache group where all of its tables are configured with <b>PROPAGATE</b> or <b>READONLY</b> and therefore not flushable. You can flush a table that is marked <b>PROPAGATE</b> by using the <b>ttCachePropagateFlagSet</b> built-in procedure.
8255	Attempt to bi-directionally propagate multiple copies of cache group <cache_group>	<p>You can create any number of cache groups that are bi-directionally propagated as long as the names of the cache groups are different and no bi-directionally propagated table appears in more than one cache group. Cache Connect has this restriction to avoid update conflict anomalies. To correct the error, choose a different name for one of the cache group.</p> <p>In very rare instances, Cache Connect falsely reports this error. The most likely cause is that there are some residual Oracle objects that were created by Cache Connect but were not dropped when the cache group was dropped or the cache agent was shutdown. For more about the Oracle objects created by Cache Connect, see <a href="#">"Managing Oracle objects for READONLY, AUTOREFRESH, and AWT cache groups"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i>.</p> <hr/> <p><b>Note:</b> Before removing any of the residual Oracle objects, use the <b>ttAdmin</b> utility to stop all cache agents.</p> <hr/>
8256	Illegal subquery used in create cache group table WHERE clause	Sub-queries are not allowed in the WHERE clause of the <b>CREATE CACHE GROUP</b> statement. To correct the error, remove the sub-query. For more information, see <a href="#">"Using WHERE clauses"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> .

8257	Parameters are not supported in Oracle WHERE clauses	Parameter binding (“?”) is not allowed in the WHERE clause of <b>LOAD CACHE GROUP</b> and <b>MERGE</b> statements. Use SQL literals instead. For more information, see <a href="#">"Using WHERE clauses"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> .
8259	WHERE clause does not match	You must specify identical WHERE clauses in cache group definitions for replicating cache groups. You must: stop replication, delete the replication definitions, drop the cache groups, recreate the cache group definitions with the same WHERE clauses, recreate replication definitions and restart replication. For more information, see <a href="#">"Replicating cache groups"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8260	Join predicate does not match	The root/child tables in one cache group aren't joined in the same manner as the root/child tables in that cache group's replicated counterpart. You must specify identical JOIN predicates in the cache group definitions for replicating cache groups. You must: stop replication, delete the replication definitions, drop the cache groups, recreate the cache group definitions, recreate replication definitions and restart replication. See <a href="#">"Replicating cache groups"</a> of the <i>TimesTen to TimesTen Replication Guide</i> .
8261	Cache groups operations may not be performed while XA transactions are alive	There is an active XA transaction. No cache operations are allowed when there is an XA transaction accessing the data store. These two TimesTen features cannot be used at the same time. The XA and JTA APIs described in the <i>TimesTen Developer Guides</i> are not supported in cache groups. See <a href="#">"Summary of compatibility issues"</a> in <a href="#">Chapter 8</a> of the <i>TimesTen Cache Connect to Oracle Guide</i> .



8262	A READONLY or WRITETHROUGH cache group can only replicate to a cache group of the same type	<p>Attempted to replicate a READONLY or WRITETHROUGH cache group to a data store with another type of cache group. When replicating between cache groups, only one cache group can be specified as AUTOREFRESH. In addition, the other cache groups must be marked <b>READONLY</b>.</p> <p>See "Replicating cache groups" in the <i>TimesTen to TimesTen Replication Guide</i>.</p>
8263	If a replicating cache group has AUTOREFRESH specified than the remote cache group must also specify AUTOREFRESH	<p>Replicated cache groups must both have AUTOREFRESH set, though the subscriber must have the AUTOREFRESH STATE OFF.</p> <p>See "Replicating cache groups" in the <i>TimesTen to TimesTen Replication Guide</i>.</p>
8264	Transaction commit/rollback succeeded on Oracle but failed on TimesTen	<p>Updates were successfully propagated to Oracle but failed on TimesTen. If a commit or rollback succeeds on Oracle but fails on TimesTen, the data in the TimesTen cache group may no longer be synchronized with the data in Oracle. After clearing up the cause of the TimesTen failure, it may be necessary to re-apply the failing transaction in TimesTen.</p> <p>See the discussion on <b>PROPAGATE</b> of the <i>TimesTen Cache Connect to Oracle Guide</i>.</p>
8265	To use AUTOREFRESH, all of the tables in the cache group must be READONLY or all the tables in the cache group must be PROPAGATE	<p>You cannot specify AUTOREFRESH with propagation disabled (NOT <b>PROPAGATE</b>). A cache group that is using AUTOREFRESH must be marked either <b>PROPAGATE</b> or <b>READONLY</b>. By default, cache tables are marked NOT <b>PROPAGATE</b>. If the cache group is not <b>READONLY</b>, you must explicitly mark each table either <b>PROPAGATE</b> or <b>READONLY</b>. This is to avoid overwriting changes during the next C operation.</p> <p>See the discussions on AUTOREFRESH and <b>PROPAGATE</b> of the <i>TimesTen Cache Connect to Oracle Guide</i>.</p>

8268	Asynchronous or Synchronous Writethrough cache group cannot have a WHERE clause	The <a href="#">CREATE SYNCHRONOUS WRITETHROUGH CACHE GROUP</a> statement or the <a href="#">CREATE ASYNCHRONOUS WRITETHROUGH CACHE GROUP</a> specifies a WHERE clause on at least one of its tables, which is not allowed. This is a compile time error message. See "Selecting a cache group type" in the <a href="#">TimesTen Cache Connect to Oracle Guide</a> for a description of asynchronous writethrough cache groups and synchronous writethrough cache groups.
8270	Table level READONLY/NOT PROPAGATE/PROPAGATE flags are not allowed in a System Managed cache group	The table-level <a href="#">READONLY</a> and <a href="#">PROPAGATE</a> attributes cannot be used in system-managed cache groups. This is a compile time error. See "Selecting a cache group type" in the <a href="#">TimesTen Cache Connect to Oracle Guide</a> .
8271	Manual LOAD/UNLOAD/REFRESH/FLUSH operations are not allowed on cache group <cache_name> because it is system managed	The <a href="#">LOAD CACHE GROUP</a> , <a href="#">UNLOAD CACHE GROUP</a> , <a href="#">MERGE</a> , and <a href="#">FLUSH CACHE GROUP</a> statements cannot be used on system-managed cache groups. This is a runtime error. See "Selecting a cache group type" in the <a href="#">TimesTen Cache Connect to Oracle Guide</a> .
8272	The REQUIRED clause is not supported	TimesTen no longer supports the <b>REQUIRED</b> attribute.
8273	At least one of the local or remote cache groups must set autorefresh STATE to OFF or PAUSED	When replicating to a cache group, the AUTOREFRESH state of the cache group must be set to OFF.

8274	If a replicating cache group has both AUTOREFRESH and PROPAGATE then the remote cache group must set autorefresh STATE to OFF	When replicating from a USERMANAGED cache group that is specified as both AUTOREFRESH and <b>PROPAGATE</b> , to another cache group that is specified with AUTOREFRESH only, the second cache group must have the AUTOREFRESH STATE set to OFF. To enable replication, you must first set <b>ALTER CACHE GROUP</b> and set AUTOREFRESH STATE OFF on the cache group that currently has AUTOREFRESH on or paused. See <a href="#">"Replicating cache groups"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8275	Manual LOAD/UNLOAD/REFRESH/FLUSH operations are not allowed on cache group <cache_group_name> because it uses AUTOREFRESH	The manual <b>LOAD CACHE GROUP</b> , <b>UNLOAD CACHE GROUP</b> or <b>MERGE</b> statement failed because the cache group is specified with c. This is not allowed. To enable these operations on this cache group, first <b>ALTER CACHE GROUP</b> and set <b>ALTER CACHE GROUP STATE OFF</b> .
8277	If a cache group on the receiver has AUTOREFRESH specified then the corresponding cache group on the transmitter must also specify AUTOREFRESH	When replicating to a subscriber cache group with AUTOREFRESH STATE OFF, the master cache group must specify the AUTOREFRESH attribute with either the STATE ON or OFF. See <a href="#">"Replicating cache groups"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8278	Cache groups with AUTOREFRESH and PROPAGATE can only be replicated if both the transmitter and receiver cache groups have autorefresh STATE set to OFF	The subscriber cache group must have AUTOREFRESH STATE OFF. See <a href="#">"Replicating cache groups"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .
8279	If a transmitting cache group has AUTOREFRESH and the receiving cache group has PROPAGATE then transmitting cache group must also have PROPAGATE	Attempt to replicate from a cache group with AUTOREFRESH specified but <b>PROPAGATE</b> not specified to a cache group with <b>PROPAGATE</b> specified. For details on how to replicate cache groups, <a href="#">"Replicating cache group tables"</a> in the <i>TimesTen Cache Connect to Oracle Guide</i> and <a href="#">"Replicating cache groups"</a> in the <i>TimesTen to TimesTen Replication Guide</i> .

8292	The cache group where clause contains a subquery. Changes of the subquery result may not be tracked by INCREMENTAL AUTOREFRESH	An AUTOREFRESH cache group has a subquery in the WHERE clause. Incremental AUTOREFRESH does not track any changes of the subquery result list. Accordingly, Cache Connect may not cache the result rows as specified by the cache group WHERE clause.
8293	Autorefresh interval should be at least <num> milliseconds	Autorefresh should be at least <i>num</i> milliseconds. Currently the minimum number of milliseconds allowed for autorefresh is 10.
8294	Replication not allowed from a non-cache group table to a READONLY cache group table	You cannot replicate from a non-cache table to a table in a READONLY cache group.
8295	To use NCHAR/NVARCHAR values through Cache Connect, Oracle Database national character set must be AL16UTF16	<p>To use NCHAR/NVARCHAR2 types in a a cache group table column or a passthrough statement, the Oracle database national character set must be AL16UTF16.</p> <p>You can use SQL*Plus to connect to the Oracle database and issue the following query to check the database national character set:</p> <pre>SELECT VALUE FROM v\$nls_parameters WHERE PARAMETER = 'NLS_NCHAR_CHARACTERSET';</pre>
8296	TimesTen and Oracle database character sets do not match. TimesTen: <database_character_set>, Oracle: <database_character_set>	<p>TimesTen data stores that contain cache groups must be in the same database character set as the Oracle database. The <b>DatabaseCharacterSet</b> of the data store cannot be changed after creation.</p> <p>To use cache groups, recreate the data store with the same database character set as the Oracle database involved in caching.</p>
8297	The session parameter <parameter> cannot be altered through a PassThrough statement	TimesTen does not support passthrough execution of the indicated <i>parameter</i> in a SQL ALTER SESSION SET statement.

8298	Table in autorefresh cache group cannot have more than <num> columns	The maximum number of columns in a cache group table that has autorefresh is 999. Generally TimesTen supports tables that contain up to 1000 columns.
8299	Cache Connect database character set cannot be TimesTen8	The TIMESTEN8 database character set cannot be specified for data stores that are used with cache groups.

## Errors 9000 -9999

Error number	Error or warning message	Details
9990	Unkown error from TimesTen daemon	An internal error occurred in the TimesTen subdaemon during a connection attempt. Please contact TimesTen <a href="#">Technical Support</a> .
9991	Invalidation of data store in progress	An application attempted to connect to a data store while it was being invalidated. Wait and retry the operation.
9992	Daemon reports error <error_details>	The TimesTen daemon encountered a problem when executing an administrative request, such as starting or stopping the cache agent or the Replication Agent. The details are contained in the error message.
9993	Final checkpoint of data store from RAM onto disk in progress	Unloading the data store from RAM or in the middle of final checkpoint. The amount of time this takes depends on the number of changed pages in the data store.
9994	Loading data store from disk into RAM in progress	Loading the data store from disk into RAM. The amount of time this takes depends on the size of the data store and the number of <a href="#">INSERTs</a> , <a href="#">UPDATEs</a> and/or <a href="#">CREATE VIEWs</a> that have occurred since the last checkpoint.
9995	Process recovery in progress: rolling back transaction of failed process	Process recovery running on this data store. Rolling back transactions. The amount of time this takes depends on the number of <a href="#">INSERTs</a> , <a href="#">UPDATEs</a> and/or <a href="#">CREATE VIEWs</a> caused by the failing transaction.
9996	Process recovery in progress: examining health of in-RAM data store	Process recovery running on this data store. Checking the state of the data store. This can take anywhere from several seconds to 15 minutes, depending on the precise state of the data store when the application failed or terminated. In general, you can expect it to take between 5-6 minutes to recover a data store.

9998	Cannot perform requested operation because TimesTen service is being quiesced	An attempt was made to connect to or destroy a data store while the TimesTen daemon was shutting down. Wait for the TimesTen daemon to start again.
9999	Subdaemon exited unexpectedly	An internal error occurred in the TimesTen subdaemon during a connection attempt. Please contact TimesTen <a href="#">Technical Support</a> .

## Errors 10000 - 10999

Error number	Error or warning message	Details
10001	Only temporary data stores with diskless or no logging allowed in diskless mode	The daemon is running in diskless mode, and an attempt was made to connect to a permanent data store, or a data store with <b>Logging</b> enabled and not diskless. To prevent this error from happening, only connect to a temporary data store or a diskless data store with <b>Logging</b> disabled.
10002	No record of a data store located in '<location>'	Warning: When creating a data store, the daemon found files whose names look like names of checkpoint or log files for the data store. Since it is a new data store, the TimesTen daemon renames the files so they have a tilde (~) at the end. This can happen if checkpoint files get moved manually instead of using the proper utilities, or if data store files from a previous version of TimesTen exist where the TimesTen daemon will put the new files.
10003	Unexpected data store file exists for new data store: <description>.	When connecting to a data store, checkpoint and/or log files exist which are incompatible or should not exist. The <i>description</i> field gives more information. You can destroy the existing data store and replace it with a new one by specifying ' <b>Overwrite</b> =1' in your connect string. For example:  ttisql -connStr "dsn=myDSN; overwrite=1"
10004	Unable to connect to daemon: <error_details>	When a process is initiating communication with the TimesTen Daemon, a communication protocol error has occurred. This is most likely due to some process other than a TimesTen Daemon running on the TimesTen Daemon port. Use <b>ttStatus</b> to check whether the TimesTen Daemon is running, and on which port.



10006	Busy with another policy request	An attempt to make a request, such as changing the RAM policy, starting the Replication Agent, or holding a data store in RAM, has timed out because some other related policy request is running.
10007	Could not wait for not-in-flux	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
10008	Data store was deleted while daemon was waiting for completion of changing the state of the database	While processing an attempt to make a request such as changing the RAM policy, starting the Replication Agent, or loading a data store into RAM, the data store has been deleted.
10009	RAM load ignored due to ramPolicy setting	A process has attempted to load a data store into RAM, but the RAM policy for the data store is not “manual.” Use <a href="#">ttAdmin</a> -ramPolicy to change the RAM policy to “manual” before attempting a RAM load or unload.
10010	RAM unload ignored due to ramPolicy settign	A process has attempted to unload a data store into RAM, but the RAM policy for the data store is not “manual.” Use <a href="#">ttAdmin</a> -ramPolicy to change the RAM policy to “manual” before attempting a RAM load or unload.
10011	Data store is currently not being managed	A process has attempted to unload a data store from RAM, but there is no TimesTen subdaemon currently managing the data store.
10012	Replication Agent was not started due to repPolicy setting	An attempt has been made to start a Replication Agent for a data store, but the replication policy for the data store is “always,” which means the TimesTen Daemon automatically starts or restarts the Replication Agent. Use <a href="#">ttAdmin</a> -repPolicy to change the replication policy to “manual” to manually control whether the Replication Agent is active. See <a href="#">"Starting and stopping the replication agents"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for details.
10013	Could not start Replication Agent for the requested data store	A Replication Agent failed during its initialization. More information is available in the user error log.

10014	Could not spawn Replication Agent for the requested data store. Please refer to user error log for further information	The TimesTen Daemon could not spawn a Replication Agent. Make sure you are not out of memory or process table space.
10015	Could not stop Replication Agent for the requested data store. Please refer to user error log for further information	An attempt to stop the Replication Agent failed. Make sure the data store still exists and the Replication Agent is still running.
10016	Replication Agent was not stopped due to repPolicy setting	An attempt has been made to stop a Replication Agent for a data store, but the replication policy is set to “always.” See <a href="#">"Starting and stopping the replication agents"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for information on setting the replication policy.
10017	OracleId not set	An attempt was made to start the cache agent for a data store, but the <b>OracleID</b> connection string value was not set. Make sure <b>OracleID</b> attribute is correctly defined in the DSN
10018	ORACLE_HOME not set	An attempt was made to start the cache agent for a data store, but ORACLE_HOME was not set in the user environment. Make sure the ORACLE_HOME environment variable is set properly, as described in <a href="#">"ORACLE_HOME environment variable"</a> in the <i>Oracle TimesTen In-Memory Database Installation Guide</i> .
10019	ORACLE_HOME path too long	The value of the ORACLE_HOME environment variable is too long. Make sure it is set correctly, and use symbolic links if necessary. See <a href="#">"ORACLE_HOME environment variable"</a> in the <i>Oracle TimesTen In-Memory Database Installation Guide</i> .
10020	Could not stop cache agent for the requested data store. Please refer to user error log for further information	An attempt to stop the cache agent failed. Use <b>ttStatus</b> to make sure the data store still exists and the cache agent is still running.

10021	Cache agent was not stopped due to cache agent policy setting	An attempt has been made to stop an Cache Agent for a data store, but the Cache Agent policy for the data store is “always,” which means the TimesTen Daemon automatically starts or restarts the Cache Agent. Use <a href="#">ttAdmin</a> - oraAgentPolicy to change the Cache Agent policy to “manual” to manually control whether the Cache Agent is active. See " <a href="#">Starting and stopping the cache agent</a> " in the <a href="#">TimesTen Cache Connect to Oracle Guide</a> for details.
10022	Failed to set ORACLE_HOME	The TimesTen Daemon was unable to set the ORACLE_HOME environment variable. Make sure you are not out of memory. See " <a href="#">ORACLE_HOME environment variable</a> " in the <a href="#">Oracle TimesTen In-Memory Database Installation Guide</a> for information on setting ORACLE_HOME.
10023	Failed to set LD_LIBRARY_PATH	The TimesTen Daemon was unable to set the LD_LIBRARY_PATH environment variable. Make sure you are not out of memory. See " <a href="#">Shared library path environment variable</a> " in the <a href="#">Oracle TimesTen In-Memory Database Installation Guide</a> for information on setting LD_LIBRARY_PATH.
10024	Could not start Cache Agent for the requested data store	An Cache Agent failed during its initialization. More information is available in the user error log.
10025	Could not spawn Cache Agent for the requested data store	The TimesTen Daemon could not spawn an Cache Agent. Make sure you are not out of memory or process table space.
10026	Some cache groups that hold triggers and other objects in Oracle may exist in the data store, drop all the cache groups before destroying the data store	A ttDestroy operation may not destroy the data store if it contains cache groups that hold triggers and other objects on the Oracle database. Drop the cache groups and attempt the destroy operation again.

## Errors 11000 - 11999

Error number	Error or warning message	Details
11000	XA internal error	An unexpected XA-specific internal error has occurred. Contact TimesTen <a href="#">Technical Support</a> .
11002	XA asynchronous operation error	An asynchronous XA operation was attempted. TimesTen does not support asynchronous XA calls.
11003	XA Resource Manager error	A TimesTen error has occurred resulting in the failure of an XA operation. This error will typically be accompanied by another TimesTen error that indicates the nature of the problem.
11004	XA invalid XID	The XID specified for an XA operation cannot be found in the list of currently active XA transactions.
11005	XA invalid argument	An invalid argument was passed to an XA function. Refer to the XA specification for a description of the valid arguments supported for each XA function.
11006	XA protocol error	An XA function was called out of sequence. Refer to the XA specification for a description of the valid function transition states.
11007	XA Resource Manager failure	A TimesTen error has occurred resulting in the invalidation of the data store. All applications must reconnect.
11008	XA duplicate XID	The XID specified for a new XA transaction is already associated with another XA transaction.
11009	XA Resource Manager doing work outside a global transaction	A local transaction must be committed before starting work on an XA transaction.
11013	Transaction committed since no log records were generated	A “prepare to commit” request for an XA transaction resulted in the transaction being committed. The transaction made no persistent changes to the data store.

11014	Request ignored due to blocking condition	An XA request was denied to a temporary resource conflict. The operation can be retried.
11016	Transaction has been heuristically rolled back	An XA transaction was rolled back outside the control of a transaction manager.
11017	Transaction has been heuristically committed	An XA transaction was committed outside the control of a transaction manager.
11020	Transaction has been marked rollback-only	Due to an internal condition, TimesTen has marked the XA transaction rollback-only. The application must request a rollback of the transaction.
11030	Autocommit must be turned off when working on global (XA) transactions	Autocommit is not supported with XA transactions. See " <a href="#">Distributed Transaction Processing XA</a> " in the <i>Oracle TimesTen In-Memory Database C Developer's and Reference Guide</i> .
11031	Illegal combination of local transaction and global (XA) transaction	Use of <b>SQLTransact</b> to commit an XA transaction is not allowed. XA transactions may only be committed through the use of <b>xa_commit</b> . See " <a href="#">Distributed Transaction Processing XA</a> " in the <i>Oracle TimesTen In-Memory Database C Developer's and Reference Guide</i> .
11033	XA support requires that logging to disk be enabled	XA support requires that the <b>Logging</b> connection attribute be set to 1.
11035	In-doubt transactions awaiting resolution in recovery must be resolved first	Due to recovery of in-doubt transactions, normal operation of the data store has been suspended. Normal operation will resume once the in-doubt transactions have been resolved by the transaction manager.
11036	XA transactions may not be started while replication is configured	TimesTen Replication is not supported with XA transactions.
11037	XA transactions may not be started while the cache agent is running	Cache Connect is not supported with XA transactions.

11038	XA transaction cannot be constructed because record <record_number> not found	A log record needed to recover an XA transaction could not be found in the existing log files. Contact TimesTen <a href="#">Technical Support</a> .
11039	XA reconstruct of xcb <record> failed	Recovery of an XA transaction failed due to an Internal error. Contact TimesTen <a href="#">Technical Support</a> .

## Errors 12000 - 13999

Error number	Error or warning message	Details
12000	Unknown error in TimesTen utility library	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12001	Specified DSN is NULL or of 0-length	The DSN argument is either NULL or an empty string. You must specify a valid DSN name.
12002	User and system <code>odbc.ini</code> file not found	<p>UNIX only. TimesTen could not locate the user or system ODBC.INI file. The search order for locating an ODBC.INI file is:</p> <ul style="list-style-type: none"> <li>the file pointed to by the ODBCINI environment variable, if set</li> <li><code>\$HOME/.odbc.ini</code></li> <li>the ODBC.INI file located in the user's home directory</li> <li>the file pointed to by the SYSODBCINI environment variable, if set</li> <li><code>/var/TimesTen/&lt;instance&gt;/sys.odbc.ini</code></li> </ul> <p>See "<a href="#">ODBCINI environment variable</a>" in the <a href="#">Oracle TimesTen In-Memory Database Installation Guide</a> for more information.</p>
12003	Cannot open user/system <code>odbc.ini</code> file	UNIX only. TimesTen could not open either the user or system ODBC.INI file.
12004	Syntax error in <code>odbc.ini</code> file	UNIX only. TimesTen encountered a syntax error while parsing the user or system ODBC.INI file.
12005	Environment variable specified in the attribute is not set	UNIX only. In either the user or system ODBC.INI file, you have specified an attribute of the DSN with an environment variable that has not been set.
12006	Invalid attribute name	The specified DSN attribute name is NULL, an empty string or not a valid attribute for a TimesTen data manager DSN. This error is also returned if the user or system ODBC.INI file contains an invalid <code>attribute_name=value</code> pair.

12007	The value of the attribute in the ini file is empty. It should not be empty	UNIX only. TimesTen DSN attributes are defined in the user or system ODBC.INI file using a <i>attribute_name=value</i> pair. The value specified is either an empty string or white space.
12008	The length of the value-string in the ini file is too long for this attribute	UNIX only. TimesTen DSN attributes are defined in the user or system ODBC.INI file using a <i>attribute_name=value</i> pair. The length of the value specified exceeds the maximum length allowed for the attribute.
12009	Specified DSN is not found in user and system odbc.ini files (or registry)	On Windows, the DSN has not been defined as a user or system DSN using the ODBC Data Source Administrator. On UNIX, the DSN is not defined as a user or system DSN in a ODBC.INI file.
12010	Specified buffer is NULL or of 0-length	The buffer specified for returning a value is either NULL or the length of the buffer is 0.
12011	Specified buffer length is not big enough to hold the value for this attribute. Value truncated.	The specified buffer length is less than the length of the requested DSN attribute value. TimesTen returns a truncated value.
12012	malloc() failed	Unable to allocate memory for TimesTen internal data structures.
12013	Specified data store name is NULL or of 0-length	The specified data store name is either NULL or an empty string. You must specify a valid data store name.
12014	Internal error in TimesTen utility library. Could not get current context	Internal error. Please contact TimesTen <a href="#">Technical Support</a> .
12015	Internal error in TimesTen utility library. Could not set current context	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12016	The number of seconds must be > 0	The number of seconds for the RAM Grace Period must be greater than 0 seconds.
12017	Failed to allocate environment handle	A call to the ODBC <b>SQLAllocEnv</b> function failed.



12018	Failed to allocate connection handle	A call to the ODBC <b>SQLAllocConnect</b> function failed.
12019	Failed to locate data store files	TimesTen cannot determine the path and names of the data store files for the specified data store.
12020	Failed to connect to data store	A call to the ODBC <b>SQLDriverConnect</b> function failed to connect to the data store using the specified connection string.
12021	Failed to disconnect from data store	A call to the ODBC <b>SQLDisconnect</b> function failed.
12022	Failed to free connection handle	A call to the ODBC <b>SQLFreeConnect</b> function failed.
12023	Failed to free environment handle	A call to the ODBC <b>SQLFreeEnv</b> function failed.
12024	Data store already loaded into RAM and being managed	A request to load a data store into RAM failed because the data store has already been loaded into RAM.
12025	Data store already manually unloaded from RAM	A request to unload a data store from RAM failed because the data store has already been unloaded from RAM.
12026	The agent is already running for the data store	The specified agent has already been started by the TimesTen daemon.
12027	The agent is already stopped for the data store	The specified agent has already been stopped by the TimesTen daemon.
12028	No record of a data store in the location specified by the DataStore attribute of the DSN. Specified DSN may be a temporary data store	The data store does not exist in the location specified by the <b>DataStore</b> attribute of the DSN.
12030	Data store is in use	The TimesTen daemon cannot perform the requested operation because another application is connected to the data store.

12032	Invalid RamPolicy specified	The valid RAM Policy values are: TT_RAMPOL_MANUAL TT_RAMPOL_ALWAYS TT_RAMPOL_INUSE
12034	RamPolicy cannot be set for temporary data stores	RAM Policy can only be set for permanent data stores.
12035	Could not initialize winsock	Windows only. A call to <b>WSAStartup</b> failed.
12036	No winsock.dll (that supports version 1.1.) found	Windows only. A call to <b>WSAStartup</b> could not locate a winsock.dll that supports version 1.1.
12037	Could not terminate winsock	Windows only. A call to <b>WSACleanup</b> failed.
12038	Could not connect to TimesTen daemon on remote host	Make sure that the TimesTen daemon is running on the remote host.
12039	Could not get port number of TimesTen replication agent on remote host. The replication agent may have either not been started or may have just been started and have not had time to communicate its port number to the TimesTen daemon	Make sure that the TimesTen Replication Agent for the specified data store is running on the remote host.
12040	Could not connect to TimesTen replication agent on remote host	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12041	Host not found	TimesTen failed to determine the IP addresses associated with the specified host name in the system's /etc/hosts file. Verify that you have correctly identified the host name, as described in " <a href="#">Configuring host IP addresses</a> " in the <i>TimesTen to TimesTen Replication Guide</i> .
12042	Cannot start transaction to perform this operation	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12043	Unable to create temporary file name	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

12044	Transmission failure sending	TimesTen failed to transmit data to the remote TimesTen Replication Agent.
12045	Cannot create temporary file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12046	Transmission failure receiving	TimesTen failed to receive data from the remote TimesTen Replication Agent.
12047	Data transmitted corrupt	The type of response received from the remote TimesTen Replication Agent does not match the expected response type.
12048	Error performing backup at source	This error can occur during a <b>ttRepDuplicateEx</b> operation when the backup operation on the source data store fails. See the verbose user error log on the source data store for additional diagnostic information.
12049	Cannot write to temporary file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12050	Transaction commit for the swap operation failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12052	Replication scheme name too long	Maximum length is 30 characters.
12053	Replication scheme owner too long	Maximum length is 30 characters.
12054	Internal Error: Cannot determine userid	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12055	No changes needed to upgrade the replication schema	During upgrade, if the replication schema version of the old data store is same as the current installation, no upgrade is required.
12056	Size values of local store must match that of the remote store	The <b>PermSize</b> , <b>TempSize</b> and <b>LogBuffSize</b> attributes of the local data store do not match those of the remote data store.
12057	Error creating temporary data store	Failed to create a local data store.
12058	Failed to read replication backup CTN	Failed to read replication backup Commit Ticket Number.
12059	Deadlock/Timeout	Either the operation caused a deadlock or the operation timed out.

12060	Invalid remote host specified	A call to <b>gethostbyname</b> with the specified remote host name failed.
12061	Invalid local host specified	A call to <b>gethostbyname</b> with the specified local host name failed.
12062	Failed to upgrade from unsupported version	Upgrade from this previous replication schema version is not supported.
12063	Cannot read from temporary file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12064	Failed to execute SQL command during update	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12065	Multiple records of replication schema version	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12066	Failed to compile command	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12067	Failed to open cursor	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12068	Failed to get next row	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12069	Failed to get format handle of the SQL command	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12070	Failed to get column information	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12071	Failed to get column value	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12072	Multiple definitions of replication store id for the specified data store	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12073	Cannot determine my own store name	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12074	Cannot determine my own hostname	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

12075	Replication tables are from an earlier version. Consider using 'ttRepAdmin -self -upgrade' to upgrade	The specified operation is not allowed on replication schemes for older versions of TimesTen.
12076	Replication schema is later than TimesTen utility library	The specified operation is not allowed on replication schemes for new versions of TimesTen.
12077	Hostname is not set on this machine	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12078	Failed to reset is_local_store	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12079	Failed to set is_local_store	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12080	No receiver found to swap with	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12081	Unsupported column type in upgrade	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12082	Failed to reset receiver CTN	TimesTen failed to reset receiver Commit Ticket Number.
12083	Found no source store ID in TTREP.REPLICATIONS	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12084	Call to gethostname() failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12085	No table found for table id	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12086	Cannot get information on table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12087	Cannot get format of table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12088	Multiple definitions of source store id	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12089	Cannot get column information of table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

12090	Cannot get type mapping for column	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12091	Cannot determine if version 2 replication tables exist	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12092	Replication schema is not empty; cannot upgrade	Replication schema must be empty for the upgrade operation.
12093	No count information returned from upgrade's scan of TTREP.TABLES	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12094	Cannot get count information from TTREP.TABLES	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12095	Cannot update object id	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12096	Cannot set object id	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12097	Cannot get column values from TTREP.PEER	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12098	Failed to determine correct write LSN for TTREP.REPPEERS.SENDLSN	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12099	Multiple schemes found. Must specify -scheme to identify which replication scheme to use	Multiple replication schemes found.
12100	Cannot create replication table definition	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12101	Cannot start transaction to check replication schema version	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12102	Failed to commit transaction for checking replication schema version	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12103	Cannot get column value from TTREP.REPELEMENTS table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

12104	Cannot find write LSN	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12105	Failed to update LSN	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12106	Cannot set new replication hold LSN	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12107	Deleting table definition info failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12108	Invalid policy ' <code>&lt;invalid_policy&gt;</code> ' specified. Must be <code>&lt;valid_policy_list&gt;</code>	The policy value supplied to the built-in procedure must be of the values in the <i>valid_policy_list</i> . Refer to the documentation on each specific built-in procedure for a description of its valid policy values. See " <a href="#">Built-In Procedures</a> " in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> .
12109	Syntax error in connection string	There is a syntax error in the specified connection string. Correct the connection string and try connecting again.
12110	Neither DSN= nor DRIVER= attributes are present in the connection string	The connection string must contain either a DSN or DRIVER attribute.
12111	Signal <code>&lt;signal_name&gt;</code> received	The application received a signal and terminated.
12114	Version mismatch between the backup files and restore. Backed-up files are version <code>&lt;version_number&gt;</code> ; ttRestore is version <code>&lt;version_number&gt;</code>	The restore operation failed because the backup files were created by a different version of TimesTen than the <b>ttRestore</b> utility used.
12116	Cannot create database for restore	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12117	Disconnect from newly created database failed	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12119	Cannot open destination file	Failed to open data store file while restoring from stream input.

12120	Insufficient bytes read from input stream	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12125	Bad data store file header read from input stream	Verify that the stream input is valid.
12132	Error forming basename of data store	Failed to create a file name from the DataStore attribute of the DSN.
12133	Data store file already exists	A data store file with the same name as indicated by the DataStore attribute of the DSN already exists.
12134	Log file(s) already exist	Log file(s) with the same name as indicated by the DataStore attribute of the DSN already exists.
12135	Failed to delete data store files; OS-detected error: <error_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12136	Error while deleting log files	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12148	Specified connection string is NULL or of 0-length	The connection string argument passed is either NULL or an empty string. You must specify a valid connection string argument.
12150	Cannot start transaction to update receiver CTN in ttrep.reppeers	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12151	Failed to commit TimesTen transaction for updating receiver CTN	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12152	Cannot set timestamp column for table	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12153	Cannot get DS_OBJ_ID value from TTREP.REPELEMENTS	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12154	Cannot get TBLID value from SYS.TABLES	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12155	Cannot get row id for row in TTREP.REPELEMENTS	Internal error. Contact TimesTen <a href="#">Technical Support</a> .



12156	Too many tables found on second pass	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12157	Failed to update the table IDs from the mapping we've created	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12158	Cannot set replication fields in SYS.TABLES	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12159	NULL passed for a pointer argument	The pointer argument must be a non-NULL value.
12161	Cannot backup temporary data stores	Backup is not allowed for temporary data stores.
12164	RamGrace cannot be set for temporary data stores	<b>ttAdmin</b> - ramGrace can only be set on a permanent data store.
12166	Failed to start Backup	The Replication Agent ran into an error while running the <b>ttBackup</b> utility on the subscriber data store or when running <b>ttRepAdmin</b> -duplicate concurrently on more than one data store. Run the <b>ttBackup</b> utility on the subscriber with replication disabled, or avoid running two duplicate operations concurrently.
12184	Could not initialize connection to TimesTen daemon	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12185	No definitions of replication store id for the specified data store	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12186	fstat() system call failed for user/system odbc.ini file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12187	read() system call failed for user/system odbc.ini file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12188	close() system call failed for user/system odbc.ini file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12189	Scan stopped for user/system odbc.ini file	Internal error. Contact TimesTen <a href="#">Technical Support</a> .

12190	Attribute name is too long	Maximum length of attribute names is 30 characters.
12191	Invalid length for connection string	The value specified for the length of the connection string to the <b>SQLDriverConnect</b> ODBC call is less than 0 and not equal to SQL_NTS.
12192	Invalid backup type	An invalid value was passed as the <i>type</i> parameter of the <b>ttBackup</b> utility library function. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12193	No backup directory specified	A null pointer or empty string was passed as the <i>backupDir</i> parameter of the <b>ttBackup</b> utility library function. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12194	Failed to retrieve data store information	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
12195	Basename contains invalid characters	An invalid value was passed as the <i>baseName</i> parameter of the <b>ttBackup</b> utility library function. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12196	Backup status file not found	No backup status file was found for the given backup directory and/or base name. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .

12197	Existing backup files do not match data store	<p>The backup files indicated by the given backup directory and/or base name are not from the data store that is being backed up.</p> <p>Causes for the mismatch include:</p> <ul style="list-style-type: none"> <li>• The data store that is stored in the backup files has a different data store path name than the data store that is being backed up.</li> <li>• The data store being backed up has the same data store path name as the data store that is stored in the backup files, but the two data stores do not have the same creation time. This can happen if the backed up data store was destroyed and a new data store was created with the same data store path name.</li> </ul> <p>These backup files can be overwritten by specifying a non-atomic backup. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i>.</p>
12198	One or more files missing from backup directory	<p>One or more backup files are missing from the backup indicated by the given backup directory and/or base name. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i>.</p>
12199	Cannot read directory contents; OS-detected error: <error_number>	<p>The contents of the backup directory could not be read due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i>.</p>
12200	Failed to open backup status file: OS-detected error: <error_number>	<p>The backup status file for the backup indicated by the backup directory and/or base name could not be opened due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i>.</p>

12201	Failed to read backup status file: OS-detected error: <error_number>	The backup status file for the backup indicated by the backup directory and/or base name could not be read due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12202	Failed to write backup status file: OS-detected error: <error_number>	The backup status file for the backup indicated by the backup directory and/or base name could not be written due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12203	Failed to close backup status file: OS-detected error: <error_number>	The backup status file for the backup indicated by the backup directory and/or base name could not be closed due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12204	Invalid or corrupted backup status file	The backup status file for the backup indicated by the backup directory and/or base name is invalid or corrupt. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12205	Backup is incomplete	The backup status file for the backup indicated by the backup directory and/or base name is incomplete. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12206	Backup control information corrupted or incomplete	The backup status information for the backup indicated by the backup directory and/or base name is corrupted or incomplete. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .

12207	Failed to write backup status record; OS-detected error: <error_number>	Backup status information for the backup indicated by the given backup directory and/or base name could not be written due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12208	Failed to retrieve file information; OS-detected error: <error_number>	An attempt to retrieve information about one or more of the backup files indicated by the backup directory and/or base name failed due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12209	Failed to open file <file_name>; OS-detected error: <error_number>	One or more of the backup files indicated by the backup directory and/or base name could not be opened due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12210	Failed to read backup file; OS-detected error: <error_number>	One or more of the backup files indicated by the backup directory and/or base name could not be read due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12211	Backup file is shorter than expected	One or more of the backup files indicated by the given backup directory and/or base name have been truncated. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12212	Failed to write backup file; OS-detected error: <error_number>	One or more of the backup files indicated by the backup directory and/or base name could not be written due to an operating system error. See <b>ttBackup</b> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .

12213	Failed to close backup file; OS-detected error: <error_number>	One or more of the backup files indicated by the backup directory and/or base name could not be closed due to an operating system error. See <a href="#">ttBackup</a> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12214	Failed to rename backup file; OS-detected error: <error_number>	One or more of the backup files indicated by the backup directory and/or base name could not be renamed due to an operating system error. See <a href="#">ttBackup</a> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12215	Backup terminated because data store connection invalidated	The requested backup operation was terminated because the data store connection was terminated. See <a href="#">ttBackup</a> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12216	Invalid restore type	An invalid value was passed as the <i>type</i> parameter of the <a href="#">ttRestore</a> utility library function. See <a href="#">ttRestore</a> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12217	Cannot restore into a temporary data store	A temporary data store cannot be the target of a data store restore operation. See <a href="#">ttRestore</a> in Chapter 6, “TimesTen Utility API in the <i>Oracle TimesTen In-Memory Database C Developer’s and Reference Guide</i> .
12218	Could not get port number of TimesTen Server. Make sure that it is running	Generally, the TimesTen Server is automatically started by the TimesTen daemon. Upon start up, the TimesTen Server lets the daemon know the port number that the Server is listening on. This error indicates that there was a problem starting the TimesTen Server. Hence, the daemon does not know the port number of the TimesTen Server. Please refer to the daemon/server log for further details.

12219	Failed to connect to TimesTen Server. Please refer to user error log for further details	A socket connection to the TimesTen Server failed. Please refer to the daemon/server log for further details.
12220	Failed to send request to TimesTen Server	A socket send call failed. This will normally be accompanied with a description of the OS error.
12221	Platform mismatch between backed-up files and ttRestore. Backed-up files are <backup_platform>; ttRestore is <restore_platform>	Files can only be restored on the same platform type where they were backed up.
12222	Backed-up files appear to be from a TimesTen release prior to TimesTen 5.0	Files that were backed up using a TimesTen release prior to 5.0 cannot be restored using this TimesTen release's utilities.
12231	Failed to truncate tables	A problem occurred during the execution of the <b>ttRepAdmin</b> -duplicate utility with the -truncate option.
12232	Failed to drop objects	A problem occurred during the execution of <b>ttRepAdmin</b> -duplicate utility with the -drop option
12233	Failed to truncate table	Specifies the table that had the problem referred to in error 12231.
12234	Failed to drop table	Specifies a table that was referred to in error 12232.
12235	There are identifiers supplied for the drop option which are also quoted for the truncate option	The <b>ttRepAdmin</b> -duplicate utility tries to drop and truncate the same table or tables with the -drop and -truncate options.
12236	There are duplicate identifiers specified in the drop option	The same table is listed twice for the -drop option of <b>ttRepAdmin</b> -duplicate.
12237	There are duplicate identifiers specified in the truncate option.	The same table is listed twice for the -truncate option of <b>ttRepAdmin</b> -duplicate.

12238	For -truncate or -drop you can specify \"ALL\" or a list of tables, not both.	For the -truncate or -drop options of the <b>ttRepAdmin</b> -duplicate utility, you can specify “ALL” or a list of tables, but you cannot specify both in the same statement.
12245	No definitions of replication store id for the data store <i>DSN</i> on <i>host_name</i>	Arguments passed during data store duplication are not consistent with store definitions on the source data store.
12246	DSN <DSN_name> exceeds the maximum length of <length>	A data store name cannot exceed 32 characters.
12247	A sequence cannot be truncated	Occurs when the name of a sequence is supplied to the -truncate option of <b>ttRepAdmin</b> -duplicate or to <b>ttRepDuplicateEx</b> .
12248	RamGrace cannot be specified with always or manual RAM policy	When setting the RAM residence policy for a data store, a grace period can be used only with the “inUse” policy.
12249	The remoteDaemonPort can only be 0 or between 1024 and 65535	Reset the value of the ttRepAdmin -duplicate -remoteDaemonPort option to a value specified in the error message.
12250	The duplicate verbosity level must be 0, 1, or 2	Acceptable values for the ttRepAdmin -duplicate -verbosity option are 0, 1 or 2.
12251	The duplicate verbosity level must be 0, 1, or 2	Acceptable values for the ttRepAdmin -duplicate -verbosity option are 0, 1 or 2.
12700	NLSRTL environment could not be initialized	The NLS data files could not be located. The installation directory may have been corrupted or become unreadable.
12701	DatabaseCharacterSet attribute required for data store creation. Refer to the TimesTen documentation for information on selecting a character set.	You must specify a value for the <b>DatabaseCharacterSet</b> attribute when creating a data store. The database character set cannot be changed after data store creation. For more details on selecting a database character set, see <a href="#">"Choosing a database character set"</a> in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .



12702	Unable to load NLS data for <NLS_data_item>	A particular NLS data file could not be located. The installation directory may have been corrupted or become unreadable. <i>NLS_data_item</i> could be a character set name or a sort name.
12705	Invalid NLS session parameter	The session parameter is unknown or unsupported by TimesTen. For example:  <code>ALTER SESSION SET NLS_BOGUS='french';</code> returns  12705: Invalid NLS session parameter
12706	Invalid NLS session parameter value.	The value supplied for the session parameter is unknown or unsupported by TimesTen. or example:  <code>ALTER SESSION SET NLS_SORT='bogus';</code> returns  12706: Invalid NLS session parameter value
12707	Linguistic index maximum key value length limit exceeded	The value computed for the linguistic index key exceeds the maximum length allowed for that index. There is a 64k upper limit for linguistic index key values.
12708	Conversion of TIMESTEN8 character set data is not allowed	An operation either explicitly or implicitly tried to convert TIMESTEN8 data to another character set. Conversion of TIMESTEN8 character data is undefined and therefore not allowed.
12713	Character data loss in NCHAR/CHAR conversion	NLS_NCHAR_CONV_EXCP was set to TRUE and a conversion was attempted for an NCHAR character having no corresponding mapping in the database character set.
12714	NLSSORT computation failed due to invalid characters in string	The string passed to the NLSSORT function contained invalid characters for the given character set. A meaningful NLSSORT result value could not be computed. Character data containing invalid characters is of dubious usefulness and should be eliminated from the database.

12715	NLS_SORT value must be BINARY when database character set is TIMESTEN8	When the database character set is TIMESTEN8, the only setting allowed for NLS_SORT is BINARY. Non-binary comparison rules for TIMESTEN8 data are undefined.
12716	'\' must be followed by four hexadecimal characters or another '\'	<p>The UNISTR function argument allows the back-slash character only as an escape for a hexadecimal Unicode character or itself. For example:</p> <pre>UNISTR('\0041')</pre> <pre>UNISTR('abc\\nop')</pre>
13000	License file <file_name> does not exist.	TimesTen cannot locate the evaluation license file.
13001	License file <file_name> unreadable.	TimesTen cannot read the evaluation license file.
13002	License key in <file_name> is invalid.	Invalid evaluation license.

## Errors 14000 - 14999

Error number	Error or warning message	Details
14000	TimesTen daemon internal error: <error_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
14001	TimesTen daemon out of memory <allocated_size>	The TimesTen daemon has run out of swap space.
14002	TimesTen daemon port in use <port_number>	The TimesTen daemon cannot listen on its specified port because the port is already in use.
14003	TimesTen daemon thread creation failed: <thread_name>	TimesTen daemon thread creation failed.
14004	TimesTen daemon creation failed: <reason_for_failure>	TimesTen daemon could not create data store for specified reason.
14005	TimesTen daemon connection failed: <reason_for_failure>	TimesTen daemon could not make new data store connection for specified reason.
14006	TimesTen daemon disconnect failed: <reason_for_failure>	TimesTen daemon could not do data store disconnect for specified reason.
14007	TimesTen daemon delete failed: <reason_for_failure>	TimesTen daemon could not delete data store for specified reason.
14008	TimesTen daemon association table full (<number_of_connections> entries)	Too many simultaneous connections have been made.
14009	TimesTen daemon startup failed: <reason_for_failure>	Startup of TimesTen daemon failed for the specified reason.
14010	TimesTen daemon spawn failed: <process_name>	TimesTen daemon could not spawn a subprocess.
14011	TimesTen daemon operation failed due to invalidation: <reason_for_failure>	Specified operation failed due to a data store invalidation.

14012	TimesTen daemon subdaemon failed: <reason_for_failure>	A TimesTen subdaemon failed to perform the requested operation.
14013	TimesTen daemon out of subdaemons: <reason_for_failure>	The TimesTen daemon could not spawn a subdaemon to perform some operation, such as managing a data store or rolling back transactions for a dead process.
14014	TimesTen daemon policy request failed: <reason_for_failure>	A <b>ttAdmin</b> request failed for the specified reason.
14015	User <user_name>, not instance admin <admin_name>, trying to start TimesTen daemon as setuid root	Attempt to start the TimesTen daemon without root privileges.

## Errors 15000 - 15999

Error number	Error or warning message	Details
15000	Password is incorrect	Incorrect password given.
15001	User lacks privilege <privilege_needed>	The users lacks the privilege for the given operation.
15002	No such user	Attempt to modify or remove a user which does not exist.
15003	Number of users specified at daemon startup exceeded	Attempt to add another user when the limit has been reached. The daemon should be restarted with a new -maxusers option specified in the ttendaemon.options file.
15004	User already exists	Attempt to add a user whose name already exists.
15005	User defined as 'identified externally' but password provided, or vice/versa	Authentication failed because either no password was provided for a TimesTen user, or a password was provided for a user defined as IDENTIFIED EXTERNALLY by the operating system or network.
15006	Cannot delete the instance administrator user	Attempt to remove the instance administrator user.
15007	Access control not enabled	Attempt to perform authorization functions when access control has not been enabled.
15008	User name exceeds limit of 30 characters	Specified user name is too long. Must be 30 characters or less.
15009	Password required for <username>	A PWD or <b>PWDCrypt</b> attribute must be specified for the given user name.
15010	Cannot convert user from 'identified externally' to internal or vice versa.	Cannot give a password to a user defined as IDENTIFIED EXTERNALLY, or remove a password for a user defined as an internal TimesTen user.
15011	Password exceeds limit of <number> characters	PWD attribute is too long.

15012	Encrypted password must have exactly <number> characters	<b>PWDCrypt</b> attribute is not the correct length.
15013	Cannot alter privileges for the instance administrator user	Must be logged into administrator account to alter administrator privileges.
15014	Only the instance administrator user can perform this command	Insufficient privileges to execute command restricted to the administrator.
15015	Cannot alter password for predefined users	Insufficient privileges to alter administrator password.
15016	Unsupported use of an internal system user account	One of the predefined users ('PUBLIC', 'SYS', 'TTREP') is being used in an unsupported operation.
15017	ADMIN privilege required to alter <attribute_name> attribute	When Access Control is in use, changing first-connection attributes from their previous values requires the ADMIN privilege.
15018	Password is illegal. Either it is empty, has leading or trailing white space characters, or contains carriage-return, newline or semi-colon characters.	Due to limitations in the ODBC connection string and ini file syntax, passwords having any of the listed restrictions cannot be correctly recognized and are disallowed at password creation time.

## Errors 16000 - 16999

Error number	Error or warning message	Details
16001	TimesTen Replication Agent (version <version_number>) started	Informational message. No action required.
16002	TimesTen Replication Agent termination begun	Informational message. No action required.
16003	Replication Agent will not be restarted automatically	Informational message. No action required.
16004	Failed to connect to datastore '<data_store_name>' for '<thread_name>' thread	The specified thread was unable to connect to the named data store.
16005	Failed to disconnect from datastore '<data_store_name>' for '<thread_name>' thread	The specified thread was unable to disconnect from the named data store.
16006	Failed to create DB context for '<thread_name>' thread	Creation of the structure that maintains status information for a specific thread failed.
16007	Failed to set DB context for '<thread_name>' thread	The internal request to create the structure that maintains status information for a specific thread failed.
16008	Failed to retrieve datastore info	Fetching the database information block failed.
16009	Failed to determine diskless status of the data store	Replication agent failed to determine the diskless status of the data store.
16010	Failed to update diskless status of the data store	Replication agent failed to set the diskless status of the data store.

Error number	Error or warning message	Details
16011	To avoid data inconsistency, copy the data store from a replication subscriber using 'ttRepAdmin - duplicate'. Use ForceConnect=1 in the connection string to override this restriction	Attempt to reconnect to the master store without first performing the duplicate operation. Set the <b>ForceConnect</b> attribute as described in <a href="#">"Recovering NONDURABLE data stores"</a> in the <i>TimesTen to TimesTen Replication Guide</i> for more information.
16012	Data store is invalid. Replication Agent exiting; but will be restarted by Timesten daemon	The replication agent considers the data store to be invalid.
16014	Current replication schema version is <schema_version_number>; we require <schema_version_number>	The version of the SQL schema that contains the replication schema is incompatible with the version of TimesTen that is currently operating.
16015	Failed to determine replication schema version	The replication agent was unable to determine the version of the SQL schema that contains the replication schema.
16016	Internal Error. Error from TimesTen daemon: <daemon_name>	A request to the TimesTen daemon failed with the specified error message.
16017	Failed to initialize <socket_name> socket due to malloc failure	The replication agent was unable to allocate a data structure for communicating with the TimesTen daemon. This is a memory allocation failure.
16018	Failed to connect to TimesTen daemon for <socket_name> socket; port: <port_number>; id: <replication_agent_subdaemon_id_number>	The replication agent was unable to initiate a connection to the TimesTen daemon.
16019	Error reading from deadman socket. System Error: <system_error_number>	A network or out-of-memory problem prevented a thread in the replication agent from opening a socket to the TimesTen daemon to perform a read.



Error number	Error or warning message	Details
16020	Fatal Error. Data received on deadman socket	A thread in the replication agent opened a socket to the TimesTen daemon to perform a read. The read returned information, which means that the TimesTen daemon failed.
16021	TimesTen daemon appears to be vanished. Terminating Replication Agent	TimesTen daemon appears to have terminated. Terminating Replication Agent.
16022	Received a '<command_name>' command	Informational message. No action required.
16023	Failed to create '<thread_name>' thread	Creation of a thread failed. This can occur because of an operating system failure or a memory resource shortage.
16024	Not enough memory to start '<thread_name>' thread	A memory allocation failed for a TimesTen data structure that is used to manage threads.
16025	Thread '<thread_name>' (context <pointer_to_context_structure>) starting	Informational message. No action required.
16026	Thread '<thread_name>' (context <pointer_to_context_structure>; return code <return_code_name>) exiting	Informational message. No action required.
16027	All replication service threads have finished	Informational message. No action required.
16028	<Number_of_threads> replication service threads did not finish	The replication agent is exiting, but some of the threads are not properly terminated.
16029	Waiting for '<thread_name>' thread to finish	Informational message. No action required.

Error number	Error or warning message	Details
16030	*** CANNOT PERFORM ANY REPLICATION WORK *** The replication schema has no information about the local store. The schema may be empty or incomplete, or the local store incorrectly represented. Monitoring the schema for changes...	Informational message. No action required.
16031	Failed to allocate <number_of_bytes> bytes	Memory allocation failure
16032	Call to <function_name>() failed. System Error: <error_number>	The specified operating system call failed with the error that is displayed.
16033	Waiting for resolution of in-doubt transaction	XA transaction has been prepared but not committed.  Informational message. No action required.
16034	Invalid special purpose debug options entry in debug.options file	An unrecognized debug option was specified.
16035	Special Purpose. Repagent enabled for check<debugging_option>	Informational message. No action required.
16036	A transmitter thread already exist for peer '<dsname>' on '<host_name>'	Internal error. Two master threads are started for the same subscriber.
16037	Internal Error. Nested transaction started by <function_name>()	Unexpected nested internal query
16038	Failed to begin transaction for caller: <function_name>()	The replication agent was unable to start a transaction.
16039	Failed to commit transaction for caller: <function_name>()	The replication agent was unable to commit a transaction.

Error number	Error or warning message	Details
16040	Failed to rollback transaction for caller: <function_name>()	Replication agent requested that a completed transaction be rolled back, but the request failed.
16041	Failed to compute a new replication hold LSN in <function_name>()	The replication agent was unable to set the “hold” log sequence number. The hold log is the oldest record held in the log for possible transmission to a subscriber.
16042	Failed to awaken log readers (TRANSMITTER threads)	A keep-alive message to a replication master failed.
16043	Failed to retrieve replication LSN from data store	Reading the log sequence number failed.
16044	Failed to retrieve my store ID from data store	The replication agent could not determine the ID of the connected data store.
16045	Failed to retrieve peer store ID for '<dsname>' ON '<host_name>' from data store. <error_code>. <error_message>	The replication agent failed to get a store ID for a specific data store name and host name.
16046	Failed to force log	A full flush of the replication log to the subscriber failed.
16048	Mismatch in TimesTen version for source and destination machine	The same version of TimesTen must be operating on the source and destination machines.
16049	Failed to update CTN for peer '<dsname>'	An attempt to update a Commit Transaction Number in the database failed.
16050	Failed to update replication hold LSN	An attempt to update the HOLD Log Sequence Number failed.
16051	Failed to update replication state	An attempt to update a log sequence number failed during a backup.
16052	Failed to set DB-level locking	Attempt to set the data-store-level lock failed.

Error number	Error or warning message	Details
16053	Failed to open temporary file needed for this operation. OS-detected error: <OS_error_name>	A temporary file could not be opened during a backup. The operating system error is displayed.
16054	Failed to perform file seek in the temporary file needed for this operation. OS-detected error: <OS_error_name>	A seek on a temporary file failed during a backup. The operating system error is displayed.
16055	Failed to read from the temporary file needed for this operation. OS-detected error: <OS_error_name>	A read on a temporary file failed during a backup. The operating system error is displayed.
16056	Failed to backup data store. <error_message>	Data store backup operation failed. The error message provides details.
16057	Failed to perform Network Checkpoint	Data store checkpoint over a network connection failed.
16058	Failed to execute table renewal. <error_code>.<error_message>	An attempt to create a list of tables on the subscriber failed.
16059	Failed to send request/response to peer. <error_message>	Sending a message to the peer failed. The error message is displayed.
16060	Failed to read data from the network. <error_message>	A read on a socket failed. This is often the result of network problems. The underlying error message is displayed.
16062	Failed to compile command: <command_name>	Compilation of a SQL statement that is used by the replication agent failed.
16063	Failed to execute command: <command_name>	Execution of a SQL command used by the replication agent failed.
16064	Failed to execute prepared command in <function_name>()	Execution of a SQL command in the specified function failed.

Error number	Error or warning message	Details
16065	Failed to open cursor for command: <command_name>	Opening a cursor during execution of a SQL statement used by the replication agent failed. The SQL statement is specified.
16066	Failed to open cursor in <function_name>()	Opening a cursor during execution of a SQL statement used by the replication agent failed. The replication agent function in which this occurred is specified.
16067	Failed to retrieve next row for command: <command_name>	Opening a cursor during execution of a SQL statement used by the replication agent failed. The SQL statement is specified.
16068	Failed to retrieve next row in <function_name>()	Opening a cursor during execution of a SQL statement used by the replication agent failed. The replication agent function in which this occurred is specified.
16069	Failed to find a row for command: <command_name>	The replication agent on the subscriber could not find replication information about a peer.
16070	Internal Error. Failed to get format from command arguments for <command_name>	Command argument substitution failed for a SQL statement used by the replication agent.
16071	Internal Error. Failed to get format from command results for <command_name>	Command result substitution failed for a SQL statement used by the replication agent.
16072	Failed to delete command	Attempt to delete a compiled SQL command failed.
16073	Internal Error. Failed to allocate a new slot for CTN. Retrying	The commit ticket number identifies a transaction. This error means that a slot could not be allocated to store the commit ticket number.
16074	No table found with id <table_id>	A specified table cannot be found. This can occur when the SQL schema is updated.
16075	Failed to lookup table <table_name>	Given an owner and table name, the table could not be found in the data store.

Error number	Error or warning message	Details
16076	Failed to retrieve version information of table <table_name>	The version of a table could not be determined.
16077	Failed to retrieve format of table <table_name>	The format of a table could not be determined.
16078	Table definition for ID <table_id> is invalid	A specified table cannot be found. This can occur when the SQL schema is updated.
16079	Failed to retrieve information for column <column_number> of table <table_name>	The replication agent could not obtain description information for some column.
16080	Table: <table_name>. Failed to lookup row for '<operation_name>'	A specific row was not found in a SQL table. This can occur during conflict resolution.
16081	Table: <table_name>. Failed to update row	A row of a table could not be updated.
16082	Table: <table_name>. Failed to update row for '<operation_name>'	A row of a table could not be updated.
16083	Table: <table_name>. Failed to delete row for '<operation_name>'	A row of a table could not be deleted.
16084	Table: <table_name>. Failed to insert row for '<operation_name>'	A row of a table could not be inserted. This can occur during conflict resolution.
16085	Table: <table_name>. Failed to empty table	An attempt to make a table empty failed.
16086	Wrong number (<number_of_peers>) of peers updated	An attempt to update the peer in the database returned an unexpected number of results.
16087	Failed to read duplicate options	An attempt to determine the options given for a duplicate operation failed.
16088	Unique constraint violation	A uniqueness constraint failed on update or insert.
16089	Foreign Key constraint violation	A foreign key constraint failed on an update or insert.

Error number	Error or warning message	Details
16090	Failed to check constraints for table <table_name>	A constraint check failed on an update or insert.
16091	Failed to retrieve constraints information for table <table_name>	A table constraint failed on a update or insert.
16092	Unexpected log record type <record_type>	An unrecognized record type was found in the log.
16093	Invalid column type: <column_type>	An unrecognized column type was encountered in a log entry.
16094	Failed to execute SQL: <sql_statement>	A SQL statement failed to execute for a command generated by the replication agent. The SQL string is displayed.
16095	No matching index columns for table <table_name>	The unique key on a column that was chosen by TimesTen on the table in the master does not exist on the subscriber.
16096	Failed to retrieve information on index <table_name>.<index_name> for table <table_name>	The replication agent was unable to determine information about an index.
16097	Failed to retrieve inline partition widths for table <table_name>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16098	Invalid replication schema. More than one entry for element <element_name> in replication scheme <replication_owner>.<schema_name>. Continuing...	More than one replication element has been found for a specific element such a table.
16099	Invalid replication schema. More than one master transmits table <table_owner>.<table_name> to me in replication scheme <replication_owner>.<schema_name>. Continuing...	Multiple tables with a particular owner and name were found in a replication schema.

Error number	Error or warning message	Details
16100	More than one host has peer '<dsname>'	Multiple hosts have been identified as masters by a replication agent acting in a subscriber role.
16101	Count of zero return subscribers disagrees with peer return service of <machine_name> for table id <table_id>	There is a difference in the return service specified by the two sides of a replication scheme.
16102	Count of zero return by request subscribers disagrees with having a return by request peer for table id <table_id>	The “Return Receipt by Request” attribute is inconsistent between two peers.
16103	Failed look up cache group <cache_group_owner>. <cache_group_name>	Named cache group was not found.
16104	Incompatible cache group definition. Length of join predicate/where clause does not match for cache group <cache_group_owner>.<cache_group_name>	Cache group definitions are inconsistent.
16105	Incompatible definition for cache group <cache_group_owner>.<cache_group_name>	The cached group on the two peers is incompatible.
16106	Table <table_name> of cache group <cache_name> is not subscribed	There is an inconsistency in defining which tables are in a cache group.
16107	Failed to check cache cache group subscription for <cache_name>	Failed to check whether all tables of a cache view are subscribed to by a specific peer.
16108	Failed to retrieve local store information	The replication agent was unable to locate the <a href="#">TTREP.REPLICATIONS</a> table.
16109	Failed to update send LSN (operation: <operation_name>)	The “SEND” Log Sequence Number could not be updated in the database.



Error number	Error or warning message	Details
16110	Failed to update return-receipt send LSN	Update of return-receipt Log Sequence Number in the database failed.
16111	Failed to initialize send LSN (operation: <operation_name>)	The data structure used to read the “SEND” Log Sequence Number could not be initialized.
16112	Failed to initialize replication meta-data	Initialization of the control block used to query the database for replication schema information failed. Additional messages about the cause of the problem will also be displayed.
16113	Failed to get IP address for host <host_name>. Retry in 60 seconds	The attempt to map a host name used in a replication schema to an IP address failed.
16114	Attempting to connect to <dsname> on <host_name> (host_ip_address); port: <port_number>	Informational message. No action required.
16115	Connected to <dsname> (<host_name>); socket: <socket_number>; port: <port_number>	Informational message. No action required.
16116	Added definition for column <column_name> (in table <table_owner>.<table_name>) into TTREP.REPTABLES	Informational message. No action required.
16117	Dropped definition for column <column_name> (in table <table_owner>.<table_name>) from TTREP.REPTABLES	Informational message. No action required.
16118	Failed to get replication hold value	An attempt to read the log sequence number for the hold log failed.
16119	Failed to enable log buffer pad	Failed to set an internal Timesten engine flag that will fail if something is inconsistent in the database. Additional messages about the cause of the problem will also be displayed.

Error number	Error or warning message	Details
16120	Failed to update transaction statistics for peer <dsname>	The replication master attempted by update statistics about a peer, but the attempt failed.
16121	Failed to flush transaction queue. Restarting log read loop	Flush of the transaction log failed. Restarting read from the initial read LSN.
16122	Failed to send heartbeat to peer. Restarting log read loop	The replication agent was unable to send its heartbeat message to its peer.
16123	Transaction (<transaction_id>) already on send queue	This is an internal consistency check. The master adds a transaction to a queue to be sent to the subscriber, but the transaction is already on the queue.
16124	Failed to retrieve subscription information for table id <table_id>	A query of the replication schema information about subscribers failed.
16125	Inline data length for partitioned tuple (<number_of_bytes> bytes) exceeds maximum of <maximum_number_of_bytes>	Inline data for row is too long.
16126	Failed to initialize buffer for transaction log read	Transaction log failed to open.
16127	Failed to read transaction logs	A read of an entry from the transaction log failed.
16128	Log seek operation failed at LSN <log_sequence_number> (caller line: <line_number>)	A seek (setting position) on the transaction log failed.
16129	Starting log read at LSN <log_sequence_number> (caller line: <line_number>)	Informational message. No action required.
16130	Update record does not contain old values	An internal consistency check for the TimesTen engine shows that an update does not include old values.

Error number	Error or warning message	Details
16131	Internal Error. Bad copy to action ends at %d not %d with nbuf %d primkeylen <primary_key_length>	A log record has field lengths that are inconsistent.
16132	Internal Error. Buffer %d addr %p, size %d	This message provides details for message 16131: the buffer address size is wrong.
16133	Peer signals change in its configuration	The peer configuration has changed.
16134	Received a packet of type: <packet_type>	The type of network packet from a peer is not a recognized type.
16135	Failed to retrieve column information for table <table_owner>.<table_name>	An attempt to query the database for information about a table in the replication scheme failed.
16136	Sending definition for table <table_owner>.<table_name> (<number_of_columns> columns)	Informational message. No action required.
16137	Transmitter signon to peer failed with signon error: <error_number>. Shutting down transmitter	The master attempted to sign on with the subscriber, but the attempt failed.
16138	Propagation cannot co-exist with Master Catchup	Catchup mode on a propagating replication agent has occurred due to corruption in the data store.
16139	Failed to add table to transmit queue	The master replication agent was unable add a table to its queue to be sent to the subscriber. Details in other error messages.
16140	Failed to initialize post handle from sbLRRepSync log record	Synchronous “Post Procedure Fail.” For synchronous replication, concerns a data structure used to “wake up” a thread.
16141	Failed to initialize semaphore from sbLRRepSync log record	There was a problem initializing a data structure used to manage the peers of the replication agent. Details in other error messages.

Error number	Error or warning message	Details
16142	Failed to retrieve peer information. No peers found	The replication peer was not found in replication schema. This message is usually due to a change in the schema.
16143	Failed to retrieve any timeout information	Internal information about the replication scheme was not found.
16144	Failed to get a slot in the return-receipt buffer	Failed to allocate the buffer used by <a href="#">RETURN RECEIPT</a> . Details in other error messages.
16145	Failed to update state in return-receipt buffer	“Return Receipt State Update Failed” in data store.
16146	Failed to exchange initial diskless CTN with peer	Diskless “Commit Transaction Number” exchange to a peer failed. Details in other error messages.
16147	Failed to change transmit byte to 0 for diskless transmit	An update of a table related to diskless replication failed. Details in other error messages.
16148	Reinitialize due to changes in replication schema	Informational message. No action required.
16149	Current state is FAILED for peer <dsname>S	While reading the transaction log, the transmitter notices that its state is “peer failed”.
16150	Failed to send FAIL packet to peer	The replication agent failed to notify a peer that the replication has failed. Details in other error messages.
16151	Log record type <record_type>, data size <number_of_bytes>, LSN <log_sequence_number>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16152	Failed to determine whether replication state is FAILED	An attempt by the subscriber replication agent to determine if it has been marked “Failed” has failed.
16153	Failed to initialize return-receipt buffer	The subscriber replication agent was unable to initialize its <a href="#">RETURN RECEIPT</a> state.
16154	Failed to check for replication schema changes	An attempt to mark a replication schema as changed has failed.

Error number	Error or warning message	Details
16155	Temporary failure to access replication configuration	The agent cannot access configuration information about replication. The agent can recover and continue.
16156	Failed to access replication configuration. Restarting replication agent	An attempt by the replication agent to access the replication schema failed.
16157	REPLISTENER thread waiting for <number_of_threads> RECEIVER thread(s) to exit	Informational message. No action required.
16158	Failed to retrieve peer list	Query of the replication schema to determine subscribers failed.
16159	Starting new transmitter for '<dsname>' on '<host_name>'	Informational message. No action required.
16160	Failed to flush log records. Replication Agent exiting; but will be restarted by Timesten daemon	Failed to flush log records. Replication Agent exiting; but will be restarted by Timesten daemon.
16161	Listening on configured port: <port_number> (assigned port: <port_number>)	Informational message. No action required.
16162	Call to setsockopt(<tcp_socket_option>) failed. System Error: <error_number>	A “Set Socket Options Failed” networking OS call failed. The details are included in this message.
16163	RECEIVER thread terminating due to certain error already recorded in the system log	The subscriber replication agent is exiting due to an error.
16164	Received a FAIL packet. Setting replication state to FAILED and shutting down myself	The subscriber replication agent received a request to mark the replication state as “failed”.

Error number	Error or warning message	Details
16165	Failed to perform backup operation	A subscriber backup operation failed. Details in other error messages.
16166	Failed to perform memory copy operation	Memory Copy Operation Fail.
16167	Failed to check catchup status	Automatic catch-up operation for a failed master data store has failed.
16168	Master Catchup started for '<data_store_name>' from CTN <commit_transaction_number> to <commit_transaction_number>	Informational message. No action required.
16169	TimesTen Replication Agent termination begun because of permanent failure during Master Catchup	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16170	Master Catchup completed for '<data_store_name>'	Informational message. No action required.
16171	Confirm Name packet with unreasonable name length <number_of_bytes>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16172	Confirm Name packet for <dsname> received, but I am <dsname>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16173	Accepting messages from a peer which is unknown locally	A request was received from an unknown peer. This is usually due to a change in the replication schema that has not yet been applied.
16174	Found more than one peer; cannot determine default	A subscriber discovered more than one peer with the same replication name and owner.
16175	Defaulted connection to peer store id <peer_store_id>; protocol: <protocol_number>	Informational message. No action required.

Error number	Error or warning message	Details
16176	Signon message after transmitting peer assigned	A subscriber replication agent is reporting that the master requesting to sign on is already signed on.
16177	Lookup of transmitting peer <dsname> failed	A subscriber got a sign on request from a master, but there is no appropriate information about that master in the replication schema.
16178	Found transmitting peer <dsname> in TTREP.TTSTORES with no entry in TTREP.REPPEERS; continuing	A subscriber got a connection request from a master, but the subscriber does not recognize it as a peer according to information in the replication schema.
16179	Transmitting peer <dsname> not defined to me	Warning: A subscriber got a connection request from a master, but the subscriber does not recognize it as a peer according to information in the replication schema.
16180	Transmitting peer <dsname> ON <host_name> has the same store id (<data_store_id>) as me	The peer ID found by a replication agent was its own ID. Possible cause is corrupt <a href="#">TTREP.REPPEERS</a> table.
16181	Replication reserve slot failed	Query to reserve a “commit transaction number” slot failed (and logged its own error message).
16182	Replication ctnlist (CTN: <commit_ticket_number>) value read failed	The replication agent was unable to read the Commit Transaction Number from the database.
16183	Failed to set replication status for this connection	Query to set replication status failed (and logged its own error message).
16184	Failed to determine whether to propagate	Query to determine if there is any propagation for the current data store has failed. Details in other error messages.
16185	RECEIVER thread noticed replication configuration change	Informational message. No action required.

Error number	Error or warning message	Details
16186	RECEIVER thread disconnects due to superseded connection from peer (internal version was <version_number>, now <version_number>)	The peer uses a different version of the replication schema than this replication agent. Note that this is not the same as the TimesTen version.
16187	Transaction <commit_ticket_number>; Error: transient <flag>, permanent <flag>	The commit of a block of transactions had errors. Details in other error messages for the individual failures. Some of the failures may be temporary.
16188	rxCommitTx() failed to commit	The commit of a block of transactions failed.
16189	Failed to begin transaction. Subscriber state is <state_number>	The replication agent is beginning a transaction, but it is not in the idle state. Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16190	Failed to push propagation loop	A propagation path could not be stored, usually because it is a loop.
16191	Replacing old table definition (<table_definition>) with the one received from peer (<dsname>)	A SQL table that has already been seen in the replication stream has been encountered. This can occur if there are SQL schema changes.
16192	Skipping definition received for already-defined table <table_name>. Part of previously processed transaction	A SQL table that has already been seen in the replication stream has been encountered. This can occur if there are SQL schema changes. The transaction will be skipped and the new table definition will be discarded.
16193	Adding definition for table: <table_name>	Informational message. No action required.



Error number	Error or warning message	Details
16194	Subscriber return service attribute conflict for element <element_name> (table <table_name>) in replication scheme <replication_owner>.<scheme_name>. Transmitting peer <dsname> ON <host_name> says '<message>'; local schema says '<message>'. Transmitter's value will be used	The return attribute on this replication element is different for each peer.
16195	Failed to find owner for element <element_name> (table <table_name>) in replication scheme <replication_owner>.<scheme_name> (received from peer <dsname> ON <host_name>). Continuing ...	Failed to find owner for this table element in the replication scheme on the named replication peer.
16196	Master/subscriber conflict with peer <peer_name> on <table_name> for element <element_name> (object <table_name>) in replication scheme <owner>.<scheme>.	The owner of this table element conflicts on the two replication peers.
16197	Failed to add element <element_name> (table <table_name>) for transmitting peer <dsname> ON <host_name>	Attempt to add a replication element has failed, probably due to a duplicate. This is a race condition where something happens between when a check is made and the attempt to add the element.
16198	Table definition mismatch on number of columns for table <table_name>. Local definition: <number_of_columns>; transmitting peer: <number_of_columns>	“Table Definition Mismatch” between the two peers. Some differences are tolerated, but others are not.

Error number	Error or warning message	Details
16199	Table definition mismatch on <attribute_name> for column <column_number> in table <table_name>. Local definition: <attribute_name>; transmitting peer: <attribute_name>	“Table Definition Column Mismatch” between the two peers.
16200	Table definition mismatch on timestamp column in table <table_name>. Local definition: <timestamp>; transmitting peer: <timestamp>. Continuing with transmitter's value	The timestamp column on one peer is not the same as the timestamp column on another peer. This can occur during conflict resolution based on timestamps.
16201	Table definition mismatch on timestamp exception action in table <table_name>. Local definition: <action>; transmitting peer: <action>. Continuing with transmitter's value	When there is a difference in timestamps between two peers, the action that each peer should take is different. The action of the transmitting peer is chosen.
16202	No cache view entry for table <table_name>	A subscriber replication agent could not find a cache group associated with a particular table sent by the master.
16203	Passed extended comparison for table <table_name>	Informational message. No action required.
16204	Table <table_name> marked invalid. Will not apply transactions received for it until a valid definition is received	A replicated table was marked invalid.
16205	Skipping definition received for cache group <cache_group_name>. Part of previously processed transaction	Informational message. No action required.

Error number	Error or warning message	Details
16206	Definition for different cache group received. Current: <cache_group_definition>; New: <cache_group_definition>. Table <table_name> marked invalid	The cache group definitions are different between the two peers.
16207	Internal error. Table ID mismatch	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16208	Failed to open file <file_name> for Timestamp report	Could not open the replication agent report file.
16210	Varying length part of key tuple > <number_of_bytes> bytes	The size of a primary key caused an overflow of a data packet.
16211	No matching V* value found for Table: <table_name>; column: <column_name>; offset: <column_offset>; ID: <hexadecimal> "Insert LSN from peer (<dsname>) was <log_sequence_number>	There is an inconsistency between the master and subscriber in the area of VARCHAR or VARBINARY columns in a replicated table.  Internal error. Contact TimesTen <a href="#">Technical Support</a> .
16212	Failed to set column <column_number> of table <table_name>	Subscriber replication could not set a column value.
16213	Table: <table_name>. Failed to insert row. <error_message>	Subscriber replication agent could not insert a row into a table due to a timestamp conflict.
16214	Table: <table_name>. Failed to delete row. <error_message>	Subscriber replication agent could not delete a row due to a timestamp conflict.
16215	Table: <table_name>. Failed to update row. <error_message>	Subscriber replication agent could not update a row due to a timestamp conflict.
16216	Failed to retrieve column number for <column_name> of table <table_name>	In an update, given a column name, the column number could not be computed.

Error number	Error or warning message	Details
16217	Connection <connection_id> awakened	Replication transactions have been halted, but the peers are connected again.
16219	Failed to retrieve any compression information	The replication agent cannot find information to complete compression.
16220	Replication is not supported with an agent using the protocol <protocol_type>	Incompatible versions of the replication protocol between the two peers.
16221	Table <table_name> not found	Table specified by master not found on receiver.
16222	The call gettimeofday failed	The system call to get time of day failed.
16223	Transmitter thread failure due to high latency <i>milliseconds</i> with peer store <i>DSN</i>	The network latency between the data stores is higher than permitted for an active standby pair.
16224	Transmitter thread failure due to high clock skew <i>milliseconds</i> with peer store <i>DSN</i>	The clock slew between the data stores is higher than permitted for an active standby pair.
16225	Transmitter thread failure due to lack of scheme consistency with peer store	The data stores that are a part of the active standby pair have replication schemes that are not the same. If the replication scheme is altered, a duplicate operation needs to be executed to ensure that the schemes on the two stores match.
16226	Receiver thread failure due to scheme read failure	The local data store was unable to read the replication scheme.
16227	Standby store has replicated transactions not present on the active	The standby data store has transactions present that are not present on the active data store. This indicates that the present active data store was incorrectly set up to be an active data store. To remedy this situation, duplicate the standby data store from the active data store.

Error number	Error or warning message	Details
16228	Transmitter thread failure due to lack of state consistency between active and standby stores	The data stores that are part of the active standby scheme have replication schemes that are not the same. If the replication scheme is altered, then a duplicate operation needs to be executed to ensure that the schemes on the two stores match.
16229	Transmitter thread failure due to lack of state consistency at subscriber store <i>DSN</i>	The data stores that are part of the active standby scheme have replication schemes that are not the same. If the replication scheme is altered, then a duplicate operation needs to be executed to ensure that the schemes on the two stores match.
16230	Store not in standby state	An error returned by the replication agent that indicates a transitory condition. No user action is necessary.
16231	The duplicate operation on this store was not successfully completed	The local data store was created by a duplicate operation that did not complete successfully. Destroy the data store and perform the duplicate operation again.
16232	Connection rejected from the standby until connection received from the active	Usually indicates a transitory error. A subscriber data store allows a standby data store to connect only after it has a connection from the active store.
16233	The subscriber store has updates not present on the active store	The subscriber data store has transactions present that are not present on the active data store. This indicates that present active data store was incorrectly set up. To remedy this situation, duplicate the subscriber data store.
16234	The subscriber store has been classified as failed by the active	The stores that are a part of the active standby scheme have replication schemes that are not consistent. This is usually a transitory error. If the error persists, then a duplicate operation must be executed to ensure that the replication schemes on the two stores match.
16235	Failed to update CTNs for standby ' <i>DSN</i> '	Error updating replication bookmark information (Commit Ticket Number) in the replication agent.

Error number	Error or warning message	Details
16236	Failed to update CTN for the subscriber store	Error updating replication bookmark information (Commit Ticket Number) in the replication agent.
16235	Failed to update CTNs for standby ' <i>DSN</i> '	Replication did not update Commit Ticket Number for the specified standby data store.
16236	Failed to update CTN for the subscriber store	Replication did not update Commit Ticket Number for the subscriber data store.
16237	Awt thread initialized for OracleId= <i>OracleId</i> , CacheUid= <i>cacheUid</i> , BatchCommitSize= <i>number</i> , AwtErrorFile= <i>file_name</i>	This message appears in the user error log. It is informational. No action is necessary.
16240	An error occurred replicating changes to Oracle but an AWT error file will not be generated since TimesTen is running in diskless mode	An asynchronous writethrough error file is not created when TimesTen is operating in diskless mode.
16242	Failed to retrieve subscription information for sequence id <i>sequence_id</i>	A failure occurred while retrieving subscription information for a sequence.
16243	No sequence found with id <i>sequence_id</i>	A sequence with the specified ID was not found.
16244	Skipping definition received for already-defined sequence <i>sequence_id</i> . Part of previously processed transaction	A subscriber received information about a sequence but already has the information.
16245	Adding definition for sequence: <i>sequence_id</i>	Generated when information about a replicated sequence on the subscribing side is added to the list of sequence information.

Error number	Error or warning message	Details
16246	Sequence definition mismatch for sequence <i>sequence_id</i> . Local definition: Minval : <i>value</i> , Maxval: <i>value</i> , Increment: <i>value</i> ; transmitting peer: Minval: <i>value</i> , Maxval: <i>value</i> , Increment: <i>value</i>	The sequence definition on the master data store does not match the sequence information generated for the subscriber data stores.
16247	Sequence <i>sequence_id</i> marked invalid. Will not apply transactions received for it until a valid definition is received	An invalid sequence definition has been received by the subscriber data stores. No updates will be applied for this sequence until a valid description is sent.
16248	Sequence <i>sequence_id</i> not found	A subscriber data store received a definition for a sequence that does not exist on the subscribing side.
16249	Failed to add sequence to transmit queue	This error occurs a sequence update message from the master data store was not added to the queue.
16250	Failed to update sequence <i>sequence_id</i>	Failed to apply a sequence update to the subscriber data store.
16251	Sending definition for sequence <i>owner.sequence_id</i>	Informational message from master data store.
16252	Table definition mismatch on cascade delete configuration for table <table_name>. Local definition: <subscriber>; transmitting peer: <master>	The foreign key cascade delete constraints for the table do not match between the master and subscriber stores.
16253	Failed to retrieve cascade delete configuration for table <table_name>	This is an internal error. The CASCADE DELETE definition on the master and subscriber may not be the same. Please contact TimesTen <a href="#">Technical Support</a> .

Error number	Error or warning message	Details
16254	Master has not been assigned an Active or Standby Role	This message could occur when a replication agent for a master store in an ACTIVE STANDBY scheme has been started but has not been classified as either master or standby. The thread attempts to restart until a state has been determined.
16255	Invalid replication schema. More than two _ORACLE stores found in scheme	Internal error. A sanity check has failed in an ACTIVE STANDBY scheme that includes Autorefresh cache groups. Please contact TimesTen <a href="#">Technical Support</a> .
16256	Invalid replication schema. No _ORACLE stores found	Internal error. A sanity check has failed in an ACTIVE STANDBY scheme that includes Autorefresh cache groups. Please contact TimesTen <a href="#">Technical Support</a> .
16257	The ID for this store does not match either of the master Ids	Internal error. A sanity check has failed after a ttRepAdmin -duplicate operation on an ACTIVE STANDBY scheme that includes Autorefresh cache groups. Please contact TimesTen <a href="#">Technical Support</a> .
16258	Failed to retrieve heartbeat factor information	Internal error. Please contact TimesTen <a href="#">Technical Support</a> .
16259	Wrong number of rows (<number_of_rows>) affected on Oracle when updating Active Standby Information	Internal error. A sanity check failed in an ACTIVE STANDBY scheme when information was updated on an Oracle subscriber. Please contact TimesTen <a href="#">Technical Support</a> .
16260	Failed to update autorefresh bookmark	The replication operation was unable to update the autorefreshed cache group bookmark on the subscriber store at runtime. This may occur because the cache group does not exist on the subscriber.
16261	Failed to add cache bookmark to transmit queue	This error occurred while adding the replicated autorefreshed cache group bookmark to the sending queue. The cache group may no longer exist on the master store.



Error number	Error or warning message	Details
16262	Failed to retrieve subscription information for cache bookmark id <ID>	This error occurred while accessing the subscription information for an autorefreshed cache group bookmark. The cache group may no longer exist on the master store.
16263	Secure protocol violation	There was a connection attempt from another replication agent that violated the security challenges presented on the protocol.
16264	Awt Ctn initialized to timestamp=<value> SeqNum=<value>	Informational message. No action required.
16265	This store is currently the STANDBY. Change to <owner>.<name> not permitted	When an active standby master is in “standby” mode you cannot update the store directly. Operations such as add/drop column, insert, update, truncate, or delete are prohibited.
16266	The remoteDaemonPort cannot be used for this -duplicate operation because the sending data store has stores that use automatic port allocation.	A remote daemon port cannot be selected during a duplication operation when the replication scheme is using automatic port allocation. To use automatic port allocation, do not specify the -remoteDaemonPort option in the duplicate operation or supply a value of 0 for the operation.
16810	Successfully executed: <command>	Informational message. No action required.

## Errors 17000 - 19999

Error number	Error or warning message	Details
17000	<code>{TABLE CACHE GROUP}</code> <code>owner.name</code> was quoted in an <code>{INCLUDE EXCLUDE}</code> clause but does not exist.	The table or cache group specified in an INCLUDE or EXCLUDE clause does not exist.
17001	The <code>{INCLUDE EXCLUDE}</code> <code>{TABLE CACHE GROUP}</code> clause has the same name ( <code>table_name cache_group_name</code> ) mentioned more than once.	The INCLUDE or EXCLUDE clause mentions the same table name or cache group name more than once.
17002	You cannot exclude everything from being replicated.	All objects in the data store were excluded in the CREATE REPLICATION statement. There must be at least one object in the data store.
17003	Maximum number of peers <code>&lt;max_peers&gt;</code> exceeded for <code>&lt;store&gt;</code>	The limit on the maximum number of peer stores was exceeded. The message indicates the maximum limit.
17004	Table <code>owner.table_name</code> of cache group <code>owner.cache_group_name</code> cannot be part of a replication subscription if the cache group is using autorefresh.	A table that is part of an autorefresh cache group, whose autorefresh state is on, cannot be a subscriber in a replication scheme. Turn the AUTOREFRESH STATE to OFF.
17005	Cannot configure conflict checking on a <code>object_type</code> element	Conflict checking cannot be configured on a SEQUENCE element, for example.
17006	Cannot configure return service on a <code>object_type</code> element	Return service cannot be configured on a SEQUENCE element, for example.

17007	Sequence <i>owner.sequence_id</i> cannot be replicated because it was created with CYCLE specified	TimesTen does not support the replication of sequences that were defined with CYCLE specified. If a replication element is created (either by CREATE REPLICAION or ALTER REPLICATION...ADD ELEMENT) and an INCLUDE or EXCLUDE clause is used or a ELEMENT SEQUENCE clause is used, and if the element involves a cycling sequence, then this error is generated.
17008	Sequence <i>owner.sequence_id</i> will not be included in the replication scheme as part of this operation because it was created with CYCLE specified	If a data store level element is created (either by CREATE REPLICATION or ALTER REPLICATION...ADD ELEMENT) and a cycling sequence is involved, then the cycling sequence is not replicated.
17009	Stores <store_name> and <store_name> on host <host_name> would be using the same replication port (<port_number>). These stores are not necessarily in the same replication scheme.	The port number for the replicated stores conflict. Master and subscriber port numbers in a replication scheme must be the same.
17010	Store <store_name> has been configured with a timeout of <msecs>. This is lower than the recommended minimum of <num> and could lead to unnecessary replication timeouts to occur.	The replication connection timeout is below the recommended value. This may lead to a large number of unnecessary connects and disconnects, thereby flooding the syslog and slowing down replication. The message indicates the minimum limit.
17011	The RELEASE attribute has been specified for store <store_name>. This feature has been deprecated and the value supplied has been ignored.	This feature has been deprecated.

17012	All AWT cache groups must be part of the Active Standby scheme. The AWT cache group for table <owner.tablename> has been quoted in an EXCLUDE CACHE GROUP clause.	AWT cache groups cannot be excluded from an ACTIVE STANDBY scheme. Redefine your ACTIVE STANDBY scheme in such a way that these cache groups are included in the scheme.
17013	The default hostname cannot be set to <host_name> because a local host of <host_name> is currently in use.	Using the built-in procedure <a href="#">ttHostNameSet</a> you have specified a hostname for a replication subscribe to a value that differs from the default hostname already in use by a replication scheme. The hostname will not be changed. To view the current hostname specified in the scheme, use the procedure <a href="#">ttHostNameGet</a> .
17014	The replication heartbeat factor must be between 0.25 and 4.0.	Internal error. A heartbeat factor outside of the specified range was supplied as a store attribute.
17015	The aging policy for table <table_name> differs from its peer: <details>.	The replication aging policy for a table used in a replication scheme differs between master and subscriber. The details can be one of: “Time-based aging versus LRU aging” “No aging versus LRU aging” “LRU aging versus time-based aging” “Time-based aging versus no aging” “Aging enabled versus aging disabled” “Aging disabled versus aging enabled” “Different lifetime” “Different lifetime unit” “Different cycle” “Different cycle unit”
17016	Error getting dbcharset ID	Internal error. A sanity check between the master and subscriber of a replication scheme failed to identify the character set used in the store. Please contact TimesTen <a href="#">Technical Support</a> .
17017	The database character set differs from its peer	Internal error. The database character set used by a master in a replication scheme is different than that used by the subscriber. Please contact TimesTen <a href="#">Technical Support</a> .

17018	Cannot replicate to peer because it is a pre-7.0 data store and this store does not have the DatabaseCharacterSet attribute set to 'TIMESTEN8'	For TimesTen to be able to replicate NCHAR type columns between this release and pre-7.0 releases of TimesTen the store in this release must have the DatabaseCharacterSet attribute set to TIMESTEN8.
17019	Store <store_name> on <host_name> would be using the same port as the daemon.	A replication configuration operation failed because the same port number as the main daemon was used for the store. Use a port number for the replication store that does not clash with the main daemon port.
17020	Failed to check CG state for duplicate	We failed checking the state of any cache groups in the source store. See the message log for the cause of the failure.
17021	Failed to reset Autorefresh bookmark	A part of the -duplicate initialization we were unable to reset the autorefresh bookmarks for cache groups in the store. See the message log for the cause of the failure.
17022	The same attribute (<attribute_name>) has been set multiple times for the same subscriber (<subscriber_name>) for element <element_name>	Thrown when an ALTER REPLICATION statement alters the return service attribute more than once for the same store
18001	DataStoreCharacterSet attribute required for data store creation. Refer to the TimesTen documentation for information on selecting a character set.	You must choose a database character set when creating a data store and supply it as a value to the <b>DatabaseCharacterSet</b> attribute. For more information on database character sets, see <a href="#">Chapter 4, “Globalization Support”</a> in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
19000	Open of document <document_name> failed	The TimesTen webserver received an error while sending data to the browser. Attempt to open the document again and verify that you have entered the correct name of the document.
19001	Send of <number_of> bytes to browser failed, error <err_number>	The TimesTen webserver received an error while sending data to the browser. The error referenced in this message provides more details on the problem.

19002	Spawn of CGI script, failed, error <error_number>	The TimesTen webserver received an error while spawning a CGI script. The error referenced in this message provides more details on the problem.
19003	Write of POST data failed	The TimesTen webserver received an error while sending POST parameters to a CGI process.
19004	CGI script <script_name> not executable	A CGI script requested of the TimesTen webserver is not executable. Please check your installation to verify that the script is in the correct location and has the appropriate privileges.
19005	Web server bind to port failed, error <error_number>	The TimesTen webserver was unable to bind to its port. The port may be in use by another process. Verify that you specified the correct port number.
19006	Cannot find perl in <path>	The TimesTen webserver was unable to find the version of PERL with the product. Please check your installation.
19007	Web server <system_call> failed, error <error_number>	The TimesTen webserver was unable to get the host name of the client.
19008	Invalid HTTP date from client (<string>)	A date sent to the TimesTen server is in an invalid format.
19009	Stat of <file_name> failed, error <error_number>	The TimesTen webserver was unable to determine file information for an HTTP document.
19010	Web server denying connection from <host_name>(<IP_address>)	The TimesTen webserver is denying access from the indicated host. The webserver configuration file can be used to control access.
19011	Authorization failure from <file_name>	The TimesTen webserver is denying access to a password-protected page because the user name supplied is unknown or the password does not match. Verify that you have supplied the correct user name and password.
19012	Cannot open password file <file_name>	The TimesTen webserver is unable to open its password file. Check your installation.

19013	Bad entry in password file <file_name>	There is a bad entry in the TimesTen webserver's password file. Correct the entry and try again.
19014	TimesTen web server internal error	The TimesTen webserver has encountered an internal error. See the TimesTen user error log for more information.

## Errors 20000 - 39999

Error number	Error or warning message	Details
20000	Use of a deprecated feature: <feature_details>	This warning indicates use of a feature that is being supported only for backwards compatibility. The feature may be removed in a future release. The <i>feature_details</i> text indicates the feature being used and suggests the appropriate course of action.
20100	This connection required recovery due to an improper shutdown	When a connection is made after an improper shutdown, a recovery process replays the logs to restore the data store to its most current state. This recovery process can be time-consuming. To avoid it, we recommend cleanly disconnecting from the data store when possible. For example, we recommend against exiting from a TimesTen application without first waiting for all connections to disconnect. And we recommend using signal handlers to catch signals that set a variable indicating that all connections must disconnect.
30101	SQL_C_ADDR is not supported in read-committed isolation mode	If the application requires SQL_C_ADDR select a different isolation mode. See " <a href="#">Concurrency control</a> " in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
30102	SQLGetData is not supported in read-committed isolation mode	If the application requires <b>SQLGetData</b> select a different isolation mode. See " <a href="#">Concurrency control</a> " in the <i>Oracle TimesTen In-Memory Database Operations Guide</i> .
30103	SQLParamOptions is not supported with result-set returning statements	An attempt was made to execute a <b>SELECT</b> statement using an array of parameters as indicated by <b>SQLParamOptions</b> . Batch execution using arrays of parameters is supported only with <b>INSERT</b> , <b>UPDATE</b> and <b>CREATE VIEW</b> statements.



## Errors 40000 - 49999

Error number	Error or warning message	Details
40005	sbHttpListParse returned NULL	Internal error. Daemon cannot honor a request from the cache agent. The reply message cannot be parsed. Please contact <a href="#">TimesTen Technical Support</a> .
40006	Could not connect to TimesTen. Cache timer thread exit.	The cache agent cannot connect to TimesTen. The timer thread used by cache aging is exiting. Review the connection settings and restart the cache agent to begin aging.
40007	Could not connect to TimesTen. Cache aging thread exit.	The cache agent cannot connect to TimesTen. The timer thread used by cache aging is exiting. Review the connection settings and restart the cache agent to begin aging.
40008	Could not do aging, Cache aging thread will try to reconnect in 1 minute.	The cache aging operation was unable to complete, the cache agent will disconnect and then reconnect and retry in one minute. If the problem does not resolve itself after several retries, review the user error log to find the cause of the aging failure.
40009	Error reading from deadman socket	The cache agent failed to read from the daemon socket. Cache agent is shutting down. If the cache agent does not restart automatically, restart it manually. If that does not work, then restart the main TimesTen daemon and then restart the cache agent manually if the cache agent policy requires it to be restarted manually.
40010	Data read, fatal internal error	Internal error. The cache agent failed to read from the daemon socket. Cache agent is shutting down. If the cache agent does not restart automatically, restart it manually. If that does not work, then restart the main TimesTen daemon and then restart the cache agent manually if the cache agent policy requires it to be restarted manually.

40011	Subdaemon exiting, main daemon gone	The cache agent detected that the TimesTen daemon is down. The cache agent is shutting down. To continue, restart the main TimesTen daemon. Then, restart the cache agent, if it does not restart automatically.
40012	Error <code> setting synchronous sockets	The cache agent cannot set a synchronous socket during startup. The operating system error code is displayed in the message. Remove the cause of OS error and restart the cache agent.
40013	Connect fail from connectToDaemon port <portID> as id <selfID>	Internal Error. The cache agent failed to connect to the TimesTen daemon at port <i>portID</i> as ID <i>selfID</i> . The TimesTen daemon may have died unexpectedly. Check the status of the main TimesTen daemon.
40014	Could not create core service thread, exiting	The cache agent cannot create one of its core service threads at startup. It is shutting down.
40015	Could not initialize connection to daemon	The cache agent cannot initialize the connection to daemon at startup. The cache agent is shutting down. The TimesTen daemon may have died unexpectedly. Check the status of the main TimesTen daemon.
40016	Daemon did not accept port setting. Message: <message>, Error Code: <code>	Internal error. Daemon did not accept cache agent port setting. The details are included in this message.
40017	Daemon did not accept port setting. Return code: <code1> Request Return code: <code2>	Internal error. Daemon did not accept cache agent port setting. The details are included in this message.
40018	TimesTen error code:<code> msg <message>	The cache agent has generated a Native TimesTen error. For more information see the description for that error in this chapter.
40019	Unable to allocate an ODBC environment handle	The cache agent failed to allocate an ODBC environment handle. Refer to ODBC documentation to find the cause of failure.
40020	Could not allocate ftclock, exiting	Internal error message. ftClock thread cannot be initialized. Please contact TimesTen <a href="#">Technical Support</a> .

40021	Could not create cache shutdown event, exiting	The cache agent cannot create an object that is used internally at startup. There may be insufficient memory or other a shortage of another system resource to initialize a condition variable. Stop the cache agent, free up the resources and restart the cache agent.
40022	Could not create <name> thread, agent will be restarted	The cache agent could not create the indicated thread. This may be caused by a lack of system resources to create another thread or the system limit on the total number of threads in a process may have been exceeded. Stop the agent, free up resources or adjust the system limit and restart the cache agent.
40026	Could not initialize internal structure for scheduler, agent will be restarted	The cache agent could not initialize an internal structure for the scheduler. The cache agent is restarting automatically. This message usually follows another message that describes the details about the failure.
40030	Cache agent has exceeded the maximum timesten connection limit of <limit>	The cache agent has too many connections to TimesTen. This is often caused by a large number of autorefresh attempts. Alter the autorefresh intervals on your cache groups to be less frequent and so that they are similar on most of your cache groups.
40031	Connect failed (<message>)	The cache agent failed to connect either to the TimesTen main daemon or to Oracle. The message included in this error may give more details. In addition, this message usually follows another message that describes the details about the failure.
40034	Last <number_of> autorefreshes failed for cache groups within interval <msecs> ms. Autorefresh will be retried silently	The latest indicated number of have failed. The autorefresh is retried without writing new messages to the user error log. This message usually follows another message that describes the details about the failure.
40035	Autorefresh failed for cache groups with interval <msecs> ms.	An autorefresh for the indicated interval has failed. This message usually follows another message that describes the details about the failure. The Autorefresh is being retried automatically.

40036	Create/alter cache group failed because autorefresh for cache group <name> is in the middle of shutting down	<a href="#">CREATE CACHE GROUP</a> and <a href="#">ALTER CACHE GROUP</a> statements cannot be processed while the cache agent is shutting down the autorefresh thread for the cache group. Wait for the thread to finish shutting down and retry your DDL operation.
40037	Could not allocate a new cache group structure. Scheduler thread exiting	The cache agent failed to allocate a new cache group structure. This may happen in response to <a href="#">CREATE CACHE GROUP</a> or <a href="#">ALTER CACHE GROUP</a> operation when there is a lack of memory or other system resource. One of the service threads (scheduler) is shutting down and autorefresh for all cache groups is stopped. Make the resource available and restart the cache agent.
40038	Could not allocate a new refresher structure. Scheduler thread exiting	The cache agent failed to allocate a new refresh structure. Cache agent fails to allocate a new refresh structure. This may happen in response to <a href="#">CREATE CACHE GROUP</a> or <a href="#">ALTER CACHE GROUP</a> operation when there is a lack of memory or other system resource. One of the service threads (scheduler) is shutting down and autorefresh for all cache groups is stopped. Make the resource available and restart the cache agent.
40042	Join of refresher-%d failed	A thread join with a refresher thread failed during cache agent shutdown.
40043	ODBC error from API call: <api_name>	The specified ODBC call failed. Refer to the ODBC documentation for details.
40044	No data source or driver specified; dialog prohibited. Check the DSN definition in the ODBC system administrator. The DSN must be a system DSN.	This error only occurs on Windows systems. The cache agent could not connect to the TimesTen data store because the data source or driver was not specified. Check the system DSN settings for this data store.

40045	No data source or driver specified; dialog prohibited. Check the DSN definition in the sys.odbc.ini file. The DSN must be a system DSN.	This error only occurs on UNIX systems. The cache agent could not connect to the TimesTen data store because the data source or driver was not specified. Check the system DSN settings for this data store.
40046	Error: <message>, ODBC SQL state = <SQL_state>, Additional Warning = <code>	The specified ODBC call failed with the indicated details.
40047	Call to SQLError failed with SQL_SUCCESS_WITH_INFO. Need to increase size of message buffer.	Internal Error, the cache agent's internal error buffer is too small for SQLError ODBC API call. Please contact TimesTen <a href="#">Technical Support</a> .
40048	Call to SQLError failed with SQL_INVALID_HANDLE.	Internal Error, the ODBC statement, connection, or environment handle passed to SQLError was invalid. Please contact TimesTen Technical Support.
40049	Call to SQLError failed with SQL_ERROR.	Internal error, the call to SQLError fails to get more diagnostic information after a failed ODBC operation. Please contact TimesTen <a href="#">Technical Support</a> .
40050	Detected invalid data store.	TimesTen data store has been invalidated, Cache agent needs to shutdown. It will be restarted
40051	Cannot attach to Oracle Server (Oracle error ORA-%05d). OracleId = <Oracle_ID>, ORACLE_HOME = <Oracle_Home>	The cache agent cannot connect to the Oracle server. The Oracle error code is included in the message. Refer to the " <a href="#">Unable to resolve Oracle Service Name</a> " and " <a href="#">Unable to validate Oracle username and password</a> " in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40052	Cannot start an Oracle session (Oracle error ORA-<code>). uid = <user_name>. pwd is hidden	Cannot start an Oracle session. The Oracle error code and the intended user name are included in the message. The password is hidden for security reason. Refer to the " <a href="#">Unable to resolve Oracle Service Name</a> " and " <a href="#">Unable to validate Oracle username and password</a> " in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

40053	OCIEnvCreate failed. Return code %d	<p>Calling OCIEnvCreate fails. The return code is included in the message. Verify the Oracle client installation.</p> <p>Refer to the <a href="#">"Unable to resolve Oracle Service Name"</a> and <a href="#">"Unable to validate Oracle username and password"</a> in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>.</p>
40054	Could not login to Oracle. TNS timeout occurred.	<p>Received a TNS timeout error while trying to login to the Oracle server. Check the Oracle client/server setting and the network health. If the problem does not get fixed after an automatic restart, check the connection and restart cache agent.</p> <p>Refer to the <a href="#">"Unable to resolve Oracle Service Name"</a> and <a href="#">"Unable to validate Oracle username and password"</a> in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>.</p>
40055	Delete query too long during unload.	<p>The system generated a query overflow in the system buffer, while executing an unload statement. This is usually caused by very a long WHERE clause in the UNLOAD CACHE GROUP statement, a large number of tables in the cache group, or very long WHERE clause in the cache group definition.</p>
40056	Not connected to Oracle during load	<p>Internal error. A connection to Oracle was not established before the loading operation. Please contact TimesTen <a href="#">Technical Support</a>.</p>
40057	Table name too long: <table_name>.	<p>Internal error. The table name is too long. A table name cannot exceed 30 characters.</p>
40058	Select query too long during load.	<p>While executing a load statement, the system generated SELECT query overflowed a system buffer. This is usually caused by a very long WHERE clause in the LOAD statement, A large number of tables in the cache group, or very long WHERE clause in the cache group definition.</p>

40059	Select list too long during load.	While executing a load statement, the system generated SELECT query overflowed a system buffer. This is usually caused by a very long WHERE clause in the LOAD statement, A large number of tables in the cache group, or very long WHERE clause in the cache group definition.
40060	Error preparing Oracle statement: <statement>	There was an error while preparing the specified SQL statement on Oracle.
40061	Error executing Oracle statement: <statement>	There was an error while executing the specified SQL statement on Oracle.
40062	Column count does not match for cached table	The Oracle table columns do not match the cached table columns. Check to determine if the Oracle table schema has been changed since the cache group was created.
40064	Rowid descriptor alloc failure	The call to OCIDescriptorAlloc failed.
40066	Internal buffer overflow during autorefresh initialization	AUTOREFRESH initialization failed because an internal buffer has overflowed. The required buffer size is proportional to the number of tables in the cache group, the number of columns, the number of columns in the primary key or foreign key, and the length of the where clause of the cache group.
40067	Failed during restarting autorefresh	Failed to restart autorefresh for some of the cache groups during cache agent startup. This message usually follows another message that describes the details about the failure.
40068	Failed to prepare the TimesTen SQL statement: <statement>	The cache agent encountered an error while preparing a TimesTen SQL statement. This message usually follows another message that describes the details about the failure.
40069	Failed to retrieve from Oracle change log. query = <query>, curSOLog=<log>	The cache agent failed to retrieve rows from the Oracle change log for autorefresh. The failing query and the current log content are specified in this message. Make sure the Oracle table objects for autorefresh have not been removed and the autorefresh user has not been changed since the creation of the cache group.

40070	Timeout while dropping an Oracle table. The query is <query>	A timeout occurred while dropping an Oracle table. The optional failed query is specified in the message. This may occur in response to either a <a href="#">ALTER CACHE GROUP</a> or a <a href="#">DROP CACHE GROUP</a> operation when the table is busy. This error is not fatal. The drop will be retried when the cache agent gets restarted. If necessary, restart the cache agent to drop the table immediately.
40071	Table is not found in Oracle: <owner>.<table>	The specified table cannot be found in the Oracle Database.
40072	Failed in checkAutorefreshConnections, bad argument	Internal error. The AUTOREFRESH connection is bad. Please contact TimesTen <a href="#">Technical Support</a> .
40073	Could not drop the oracle objects. Either an Autorefresh uid was not provided or the uid was invalid.	Failed to drop Oracle objects for AUTOREFRESH because either the cache administration user ID was not given or the UID was incorrect. Make sure the cache administration user ID provided at cache agent startup time is correct.
40076	Failed calling OCI function: <function_name>	The cache agent failed while calling the specified OCI API function. This message is usually followed by another message that describes the details about the failure.
40077	Oracle native error code = <error_code>, msg = <message>	The cache agent encountered a native Oracle error while calling an OCI function. The details are included in this message.
40078	Assertion failed: <message>	Internal error. A cache agent internal consistency check failed. Please contact TimesTen <a href="#">Technical Support</a> .
40079	Fail to malloc size <memory_size>	Failed to malloc memory of size <size>.



40081	Fail to get Oracle username and password: <error_number>	Failed to get Oracle username and password, the details are included in this message. This may happen during the cache agent startup # This message usually follows another message which describes the details about the failure. # The cache agent gets automatically restarted when this error occurs.
40083	Cache agent startup command line value missing for flag <flag>	Internal error. The main TimesTen daemon started the cache agent with missing values for the indicated flag. Please contact TimesTen <a href="#">Technical Support</a> .
40084	Cache agent startup command line flag <flag> has incorrect value <value>	Internal error. The main TimesTen daemon started the cache agent with incorrect values for the specified flag. Please contact TimesTen <a href="#">Technical Support</a> .
40086	Could not allocate Oracle statement handle	Error allocating Oracle statement handle. Please contact TimesTen <a href="#">Technical Support</a> .
40087	Could not allocate TimesTen statement handle	Error allocating a TimesTen statement handle. Please contact TimesTen <a href="#">Technical Support</a> .
40088	Log reader TTC_FT_OBJECT_PREFIXgetMinSCN returned OCI_NO_DATA	Internal error. getMinSCN should have returned at least one row, but was unable to do so. Please contact TimesTen <a href="#">Technical Support</a> .
40089	Log reader getLmLock returned OCI_NO_DATA	Internal error. getLmLock should have returned at least one row, but was unable to do so. Please contact TimesTen <a href="#">Technical Support</a> .
40090	Log reader getLmUserCount returned OCI_NO_DATA	Internal error. getLmUserCount should have returned at least one row, but was unable to do so. Please contact TimesTen <a href="#">Technical Support</a> .
40091	Log reader getLmUserCount returned OCI_NO_DATA	Internal error. getLogLimit should have returned at least one row, but was unable to do so. Please contact TimesTen <a href="#">Technical Support</a> .

40092	Oracle type %d not supported	Internal error. Oracle type for the primary key is not supported. Please contact TimesTen <a href="#">Technical Support</a> .
40093	Could not parse redo sql cscn:<cscn>, sql: <statement>	Internal error. Parsing of redo SQL statement failed. Please contact TimesTen <a href="#">Technical Support</a> .
40094	Unable to get primary key metadata for base table <table_name>, log table <table_name>	Internal error. Unable to get metadata for primary keys for the indicated base and log tables. Please contact TimesTen <a href="#">Technical Support</a> .
40096	Logreader initialization failed	Log reader allocation failed. Please contact TimesTen <a href="#">Technical Support</a> .
40108	Could not derive the data store file name. Data store path = <path_name>	Internal Error. TimesTen could not derive the data store name from the provided data store input parameter to cache agent. Please contact TimesTen <a href="#">Technical Support</a> .
40114	Connection to Oracle ahs not succeeded for last <num> minutes. Number of failed attempts: <num>. Initiating cache agent restart.	At cache agent startup time, the cache agent cannot connect to Oracle. A CREATE CACHE GROUP or an ALTER CACHE GROUP statement can encounter this error because the operation was attempted too soon after the cache agent was started or because the cache agent was unable to establish a connect to Oracle. Messages in the user error log may provide details on the connection failures. If the problem does not resolve itself after several attempts, manually restart the cache agent. For more details see " <a href="#">Unable to resolve Oracle Service Name</a> " and " <a href="#">Unable to validate Oracle username and password</a> " in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40115	No cache groups will be autorefreshed until a connect to Oracle can be established. Will try to connect to Oracle silently every %d seconds. Additional error information: <message>.	At cache agent startup time, the cache agent cannot connect to Oracle. The cache agent keeps trying to connect to Oracle.

40116	Fatal error occurred while trying to connect to Oracle. Check the Oracle Id, UID, PWD & the status of Oracle instance. No autorefreshing will occur until the problem is resolved and cache agent has been restarted.	At cache agent startup time, the cache agent cannot connect to Oracle. The cache agent automatically shuts down and restarts. If the problem does not get fixed after this automatic restart, you should stop the cache agent, check the OracleID, UID, PWD & the status of the Oracle instance and restart cache agent.
40117	AUTOREFRESH LOGSEQ ERROR: LogSeq(<number>) = <error_number> considered not valid. It will not be stored in the datastore.	Internal Error. TimesTen saw an invalid bookmark when trying to store the log sequence into TimesTen. The autorefresh cannot move forward. It resumes from the last valid logseq number.
40119	An error occurred while preparing or executing the following Oracle sql statement: <statement>	This message usually follows another message that describes the details about the failure.
40120	Autorefresh has not succeeded for cachegroups with interval <interval> ms for last <minutes> minutes. Number of failed attempts: <attempts>. Initiating cache agent restart.	Autorefresh for the specified interval has failed in the indicated minutes, after the indicated number of attempts. The cache agent is restarting.
40121	Auto-Refresh failed (Could not turn on table locking)	Table-level locking could not be turned on for this autorefresh transaction. This autorefresh is being aborted and retried.
40122	Could not parse fullname, <name>, in owner and name.	TimesTen was unable to parse the cache group name during the autorefresh object validation for cache group <cache_group_name>. Please contact TimesTen <a href="#">Technical Support</a> .
40123	Autorefresh trigger %s is not enabled for table <table_name>. The cache group <cache_group_name> in data store <data_store_name> will not be refreshed.	Autorefresh Oracle object validation for cache groups finds that the Oracle trigger <i>trigger_name</i> on the indicated table is not enabled. Autorefresh cannot work for the table. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

40124	Could not find autorefresh trigger %s. The cache group <owner>.<cache_group_name> in data store <data_store_name> will not be refreshed.	Autorefresh Oracle object validation for cache groups finds that the oracle trigger <i>trigger_name</i> on the indicated table of the cache group was not found on Oracle. Autorefresh cannot work for the cache group. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40125	Could not find the Oracle autorefresh <object_type> <object_name> for table <table_name>. The cache group <cache_group_name> will not be refreshed in all datastores.	A table in the cache group <cache_group_name> did not find the autorefresh object on the Oracle Database. Autorefresh cannot work for the cache group. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40126	Autorefresh %s %s for table <table_name> is not valid on Oracle. The cache group <cache_group_name> will not be refreshed.	Autorefresh Oracle object validation for a cache group table found an invalid status for an autorefresh object on Oracle. Autorefresh cannot work for the cache group. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40127	Internal error: could not compute the difference of two dates.	Autorefresh object validation could not complete because of this error.

40128	Oracle object id is different - Oracle table <table_name> has been recreated since the cache group <cache_group_name> in data store <data_store_name> was created. The cache group will not be refreshed	<p>Autorefresh object validation for the cache group found an incompatibility between the cache group objectID and the objectID on Oracle.</p> <p>This could have been caused when a table was created on the Oracle Database after the cache group was created. Autorefresh cannot work for the cache group. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>.</p>
40129	Oracle create date changed - Oracle table <table_name> has been recreated since the cache group <cache_group_name> in data store <data_store_name> was created. The cache group will not be refreshed	<p>Autorefresh object validation for the cache group found an incompatibility between the create date for the specified table in a TimesTen data store and that on the Oracle Database.</p> <p>This could have been caused when a table was created on the Oracle Database after the cache group was created. Autorefresh cannot work for the cache group. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>.</p>
40130	AutoRefresh log table is older than base table - Oracle table <table_name> has been recreated since the cache group <cache_group_name> in data store <data_store_name> was created. The cache group will not be refreshed	<p>The error occurs when autorefreshing Oracle object validation for the cache group. A change log table for table &lt;table_name&gt; is older than the table itself.</p> <p>This could have been caused when a table was created on the Oracle Database after the cache group was created. Autorefresh cannot work for the cache group. Either ALTER the Autorefresh state of cache group to OFF and then back to ON, or drop and recreate the cache group. For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>.</p>

40131	Could not parse table names for cache group <owner>.<cache_group_name>.	Internal Error. The cache agent was unable to parse the tables names during the autorefresh object validation for the specified cache group. Autorefresh object validation could not complete because of this error.
40132	Could not find user count row for table <table_name> in <cache_group_name>. Any autorefreshed cache group containing table <table_name> will not be refreshed.	An autorefresh validation check could not find the Oracle user count row for the indicated table in <i>user_count_table_name</i> . Any autorefreshed cache group containing the specified table will not be refreshed. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40133	The user count in the user count table <table_name> for table <table_name> in cache group <owner>.<cache_group_name> is NULL. The cache group may not be refreshed.	An autorefresh validation check found user count to be NULL in the in the <i>user_count_table_name</i> for the specified cache group table. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40134	The user count for table <table_name> in cache group <owner>.<cache_group_name> is less than 0.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40135	The user count for table <table_name> in cache group <owner> .<cache_group_name> is equal to 0.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40136	The log sequence number in the user count table <table_name> for table <table_name> in cache group <owner>.<cache_group_name> is NULL. The cache group may not be refreshed.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

40137	The log sequence number in the user count table <table_name> for table <table_name> in cache group <cache_group_name> is not equal to the largest logseq in the autorefresh log table <table_name>. The cache group may not be refreshed for all datastores.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40138	The previous log sequence number is greater than the recorded refresh bookmark for table <table_name> in cache group <cache_group_name> in data store <owner>.<data_store_name>	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40139	The user count table <table_name> on Oracle instance <instance_name> was not found. The autorefresh will not work for all datastore for this instance.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40140	The sequence number for table <table_name> had changed but the table was not refreshed. <cache_group_name> cache group in data store <data_store_name> is out of sync.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40141	The sequence number for table <owner>.<table_name> had changed but the table was not refreshed. The cache group in data store <data_store_name> is out of sync.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

40143	Could not find table <table_name> for cache group <cache_group_name> in oracle. %s may not have privileges. The cache group will not be refreshed.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40144	Table <owner>.<table_name> in cache group <owner>.<cache_group_name> is not valid on Oracle. The cache group will not be refreshed.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40145	An internal autorefresh structure has not been initialized. Cache group <cache_group_name> in data store <data_store_name> will not be refreshed.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40146	An internal autorefresh structure has not been initialized.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40147	The id for cache group <cache_group_name> in data store <data_store_name> is invalid.	A problem occurred while trying to validate an autorefresh Oracle object. For details on fixing this problem, refer to the " <a href="#">Validate autorefresh Oracle objects</a> " section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
40148	Could not generate hash of host and data store name	Internal error. A bi-propagated cache group operation failed to generate a hash of host and data store name Please contact TimesTen <a href="#">Technical Support</a> .
40149	Was not able to initialize an internal autorefresh structure. The refresher will try to reinitialize the structure later.	The cache agent failed to initialize an internal data structure used by autorefresh. This message usually follows another message that describes the details about the failure. TimesTen is retrying the initialization.



40157	OCIHandleFree() failed.	Check the health of the Oracle connection.
40158	() failed. uid <user_ID>.	Internal error. The cache agent failed to set the user ID of the session. Please contact TimesTen <a href="#">Technical Support</a> .
40159	Could not initialize OCI function pointers. Error: <message>	This is a cache agent initialization error. The OCI functions cannot be set up to be used with the cache agent. The specific error is included in the message and may provide a suggestion to solve the problem. Check both the Oracle and TimesTen installations. On UNIX systems, make sure the ORACLE_HOME environment variable is set correctly.
40160	Clean up of autorefresh oracle objects failed. snprintf returned %d with buffer length %d.	This is an internal error that occurred during clean up of autorefresh Oracle objects. Please contact TimesTen <a href="#">Technical Support</a> .
40162	ODBC call failed with SQL_INVALID_HANDLE	This is an internal error indicating that an ODBC handle used by the cache agent is invalid. Please contact TimesTen <a href="#">Technical Support</a> .
40163	OCI call failed with OCI_INVALID_HANDLE	This is an internal error indicating that an ODBC handle used by the cache agent is invalid. Please contact TimesTen <a href="#">Technical Support</a> .
40164	OCIErrorGet failed with OCI_INVALID_HANDLE	This is an internal error. The <b>OCIErrorGet</b> call failed to get more diagnostic information after an OCI call failed. The OCI handle is invalid. Please contact TimesTen <a href="#">Technical Support</a> .
40165	Unique Constraint is violated while loading table <owner>.<table_name>	The unique constraint has been violated in TimesTen during a <a href="#">LOAD CACHE GROUP</a> , <a href="#">MERGE</a> or AUTOREFRESH operation on the indicated table. Unload the cache group and then reload it. If the error still occurs, please contact TimesTen <a href="#">Technical Support</a> .

40166	Required table <table_name> does not exist on oracle	Autorefresh oracle object validation detected that the indicated table does not exist. The log table garbage collector can not work. To recreate the tables, recreate the AUTOREFRESH cache group. For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>
40167	<owner>.<table_name> table on oracle does not have required lock rows	Autorefresh oracle object validation detected that the indicated table does not exist. The log table garbage collector can not work. To recreate the rows, recreate the AUTOREFRESH cache group. For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>
40169	Can't initialize bookmark reporter	The Cache agent failed to initialize a new data structure used by the bookmark reporter. This may happen in response to a <a href="#">CREATE CACHE GROUP</a> or <a href="#">ALTER CACHE GROUP</a> statement due to a lack of memory or other system resource. The operation cannot continue successfully. Free up the necessary resources and reissue the DDL statement.
40173	Can't initialize log table marker	The Cache agent failed to initialize a new data structure used by the log table marker. This may happen in response to a <a href="#">CREATE CACHE GROUP</a> or <a href="#">ALTER CACHE GROUP</a> statement due a lack of memory or other system resource. The operation cannot continue successfully. Free up the necessary resources and reissue the DDL statement.
40175	Failover stopped. Failover will not take place.	The cache agent detected an Oracle OCI_FO_ABORT failover event. The failover was unsuccessful. If the cache agent does not restart automatically, restart it manually.

40176	Bad Failover Event: <event>.	Internal error. The cache agent does not recognize the Oracle failover event. Please contact TimesTen <a href="#">Technical Support</a> .
40177	Could not re-establish a connection in <num> minutes. Failover will not take place	The connection to one of the RAC nodes failed and the cache agent could not failover to another RAC node. It timed out and the failover was unable to continue. If the cache agent does not restart automatically, restart it manually.
40178	Failed to register failover callback for server handle <handle>.	The cache agent failed to register the RAC failover callback function. No action is needed if the application is not running against a RAC server. If you are running against a RAC server, verify that the Oracle OCI client is the latest 9i or 10g client and that TAF is enabled.
40179	OCIHandleAlloc() failed.	The cache agent may have run out of memory or another system resource. Please contact TimesTen <a href="#">Technical Support</a> if the problem persists.
40180	Unexpected row count. Expecting %d. Got %d.	Oracle objects required for autorefresh operations could not be uninstalled because a DDL lock could not be acquired. Restart the cache agent. If the error persists, please contact TimesTen <a href="#">Technical Support</a> .
40181	<object> could not be found on Oracle. Check that <user> has <privileges> on <Oracle_object>	The Oracle object could not be found. Verify that the specified Oracle user has the correct privileges on the object.
40182	Timestamp descriptor alloc failure	The call to <b>OCIDescriptorAlloc</b> failed.
40183	Could not retrieve aging lifetime for cache group with cgID %"UINTP_FMT"	Internal error. The cache agent could not retrieve the aging lifetime for cache group from the TimesTen data store. This message usually follows another message that describes the details about the failure. Load/refresh cache group will fail.
44000	Warning: Statement <statement>	The TimesTen ODBC driver returns the SQL warning included in the message.

44001	Warning: <warning_message>, ODBC SQL state = <state>, Additional Warning = <warning_message>	The TimesTen ODBC driver returns the SQL warning included in the message.
44002	Table loading warning summary: <number_of> data truncations	This message reports the number of data truncations that occurred during a <a href="#">LOAD CACHE GROUP</a> statement.
44003	Table loading warning: Data truncated for table <table_name>, row <row_num>, column <column_num>	Warning: A data truncation occurred at the specified row and column while loading the specified table.
44004	OCIDescriptorFree : RowId descriptor was not freed. i=<row>, error=<code>	Internal warning, the <b>OCIDescriptorFree</b> call did not succeed for specified row with the OCI error code that is included in this message.
44005	Table loading warning summary: <number_of> column values truncated	The specified number of column values were truncated during a <a href="#">LOAD CACHE GROUP</a> statement.
44007	Table refresh warning: Data truncated for table <table_name>, row <row_num>, column <column_num>	The specified number of data truncations occurred for the specified table, row and column.
44009	Warning: Oracle object cleanup failed.	The cache agent may not have cleaned up all the Oracle objects. If necessary, clean up the objects manually.
44010	Warning: cmd: <command>	The cache agent encountered an Oracle OCI warning while processing the specified command.
44011	Oracle warning i = <warning_no>: <error_message>	The cache agent encountered one or more warning(s) while executing an Oracle OCI call. The details are included in this message.
44017	Newly updated records are missing from log table <table_name> because of truncation. Table <owner>.<table_name> will be fully refreshed	The specified table needs to be fully refreshed because log table was truncated. For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh becomes full autorefresh"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

44022	The cache agent has not been able to established a connection to Oracle. No cache groups will be refreshed until a connection is made. Please check the status of the Oracle instance.	<p>The cache agent encountered this error after either a <b>CREATE CACHE GROUP</b> or <b>ALTER CACHE GROUP</b> statement because the operation came too soon after the cache agent started or the cache agent could not establish a connection to Oracle.</p> <p>Other error messages in the user error log may provide details on connection failures. Resolve the connection problem manually if does not resolve after several retries, and restart the cache agent.</p> <p>Refer to the <a href="#">"Unable to resolve Oracle Service Name"</a> and <a href="#">"Unable to validate Oracle username and password"</a> in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i>.</p>
44023	Cache agent was successfully able to connect to oracle after %d failed attempts	The cache agent was initially having trouble connecting to Oracle but it succeeded after the indicated number of retries.
44024	Could not find the object id for table <owner>.<table_name> in the autorefresh structure. The cache agent may be lagging behind.	This is a warning message.
44025	Could not find the cache group <owner>.<cache_group_name> in data store <data_store_name>. The cache agent maybe lagging behind. The cache group will not be validated.	This is a warning message.
44026	The autorefresh mode for cache group <owner>.<cache_group_name> in data store <data_store_name> is different from refresher. The cache agent is lagging behind.	This is a warning message.

44027	The autorefresh state for cache group <owner>.<cache_group_name> in data store <data_store_name> is different from refresher. The cache agent is lagging behind.	This is a warning message.
44028	Cache group <cache_group_name> in data store <data_store_name> has %d tables yet the refresher has %d tables.	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
44029	Cache group <cache_group_name> in data store <data_store_name> has table <table_name> yet the refresher has table <table_name>	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
44030	Autorefresh log table <table_name> is empty. The autorefrasher will perform a full refresh on all datastores in order to recovery.	For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh becomes full autorefresh"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
44031	The log sequence number has changed but the table <table_name> in cache group <owner>.<cache_group_name> was not refreshed. Will check if it is refreshed during the next validation cycle.	For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh becomes full autorefresh"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
44032	The current log sequence number is greater than the recorded bookmark for the table <table_name> in cache group <owner>.<cache_group_name> in data store <data_store_name>. The table should have been refreshed but was not. Will check if it is refreshed during the next validation cycle.	For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh becomes full autorefresh"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

44033	The cache agent for data store <data_store_name> shows that the cache group <owner>.<cache_group_name> is an incremental autorefresh cache group yet the system table shows that it is not. The cache agent may be lagging behind.	This error could occur after the mode was altered from INCREMENTAL to FULL. Contact TimesTen <a href="#">Technical Support</a> if the problem does not fix itself by the next validation cycle.
44034	The cache agent indicates that cache group <cache_group_name> is active, incrementally refreshed and has interval <msecs> ms for data store <data_store_name>. But the TimesTen system tables indicate that the cache group should not be incrementally refreshed in this interval. The cache agent may be lagging behind.	This error could occur after an <a href="#">ALTER CACHE GROUP</a> operation. Contact TimesTen <a href="#">Technical Support</a> if the problem does not fix itself by the next validation cycle.
44035	The TimesTen system tables indicates that cache group <owner>.<cache_group_name> is active, incrementally refreshed and has interval <msecs> ms for data store <data_store_name>. But the cache agent is not currently incrementally refreshing it in this interval. The cache agent may be lagging behind.	This error could occur after an <a href="#">ALTER CACHE GROUP</a> operation. Contact TimesTen <a href="#">Technical Support</a> if the problem does not fix itself by the next validation cycle.
44036	The log table <table_name> has been truncated and will result in a full refresh of the table <table_name> in data store <data_store_name>.	For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh becomes full autorefresh"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .

44037	The table <table_name> on data store <data_store_name> is currently out of sync with Oracle. The bookmark for the table is <bookmark_name>. If this warning appears again with the same bookmark, then the cache agent is not making any progress refreshing this table. Otherwise if the warning does not appear again with the same bookmark, the cache agent was only temporarily behind.	For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh becomes full autorefresh"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
44038	The last recorded log sequence number is larger than the current log sequence number for table <table_name> for cache group <owner>.<cache_group_name>. Updates might get lost.	Internal error. Contact TimesTen <a href="#">Technical Support</a> .
44039	The cache agent hasn't fully initialized yet. Once it has initialized, the cache groups will be refreshed.	The cache agent has not initialized yet because it is still cleaning up Oracle objects. The cache agent encountered this error after either a <a href="#">CREATE CACHE GROUP</a> or <a href="#">ALTER CACHE GROUP</a> statement because the operation came too soon after the cache agent started or the cache agent could not establish a connection to Oracle. Restart the cache agent if it doesn't start automatically.
44040	The log table marker is not making progress for tables in refresh interval %UINT8_FMT ms in data store <data_store_name>. New records are being autorefreshed but bookmark is not moving ahead, causing duplicate work	Internal error. Contact TimesTen <a href="#">Technical Support</a> .



44041	Autorefresh was not able to acquire lock on one of the cache groups, may be because a DDL transaction is open on the cache group. Autorefresh will be retried again	Make sure there are no open DDL transactions on the cache group.
44042	Twosafe replication transaction was committed without commit acknowledgement from subscriber because failed to get acknowledgement within the specified timeout interval	The cache agent forced a commit of a TWOSAFE transaction because it did not receive an acknowledgement. This causes replication subscribers to be behind.
44043	Entry for object id <object_name> exists in TTC_FT_OBJECT_PREFIXagent_status but missing from TTC_FT_OBJECT_PREFIXuser_count table	For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
44044	Last autorefresh for interval "<msecs>" ms has not finished after " <msecs>" ms	An autorefresh transaction is taking significantly longer than the specified autorefresh interval. The first parameter of this message indicates the specified autorefresh interval. The second parameter indicates how long the transaction has been in progress. For details on fixing this problem, refer to the <a href="#">"Incremental autorefresh not progressing"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
44045	pthread_cond_timedwait failed with return value <return_value>	Internal error. An operating system call failed.
44046	Failover error. Retrying...	This is an internal warning indicating that a TimesTen operation meant to handle Oracle failover was not successful. The cache agent is retrying the operation. No action is needed if no other error messages are present.
44047	Operation is aborted because cache agent is shutting down	Warning. The cache agent is shutting down.

44048	OCIDescriptorFree failed	Internal warning. The OCIDescriptorFree call did not succeed.
44049	Could not get LockTruncator lock because the SYNC_OBJS table or LockTruncator row does not exist. Will try again after 1 minute	For details on fixing this problem, refer to the <a href="#">"Validate autorefresh Oracle objects"</a> section in the <i>Oracle TimesTen In-Memory Database Troubleshooting Procedures Guide</i> .
47000	TimesTen cache agent Version <version>, <time_of_build> <date_of_build>	This message indicates the version of the cache agent. The version is of the format <i>major.minor.patch.buildtime.builddate</i> .
47001	Watching for main daemon termination	Informational message. The agent thread that detects TimesTen daemon shutdown event is up running.
47002	Registered with daemon: Port <port_no>, id <ID>	Informational message. The cache agent has registered itself with daemon.
47003	Starting up cache agent for data store <data_store_name>	Informational message. The cache agent is reporting the data store name that it is managing.
47006	Received request <request>	Informational message. The cache agent received a request. The request format is internal
47007	Replied OK	Informational message. The cache agent replied to a request by sending an OK message
47008	Replied Missing type	Informational message. The cache agent received a request but the message type was not specified.
47009	The request was denied because it was not sent by an authorized process	Informational message. The cache agent rejected a request because the request was not sent by an authorized process.
47010	Refreshed cache group: <cache_group_name>	Informational message. A manual refresh statement has been done through the Cache agent on the indicated cache group.
47011	Loaded cache group: <cache_group_name>	Informational message. A manual load statement has been done through the cache agent on the indicated cache group.

47012	Stopped autorefresh for cache group: <cache_group_name>	Informational message. The stop autorefresh request for the specified cache group has been received and queued.
47013	Bad request	Informational message. The requested message cannot be handled by the cache agent.
47015	pthread_key_create executed: <key>	Informational message. The cache agent thread is starting.
47016	Logging off of Oracle	Informational message. Logging off from Oracle.
47017	Disconnected from Oracle	Informational message. Disconnect from Oracle.
47018	<name> <interval>: Trying to free orphan cache group <cache_group_name>	Cache groups that no longer belong to any autorefresh intervals are orphan cache groups. Cache agent is cleaning up the specified orphan cache group from its internal data structure.
47026	Last autorefresh for interval <msecs> ms has not finished after <msecs> ms	Informational message. The cache agent cannot keep up with the autorefresh requests. Use a longer autorefresh interval.
47029	refresher started for interval %UINT8_FMT milliseconds	Informational message. The autorefresh handler thread for the specified interval has started.
47030	refresher for interval <msecs> milliseconds is about to exit	Informational message. The autorefresh handler thread for the specified interval is about to exit
47037	Disabled autorefresh for cache group: <cache_group_name>	Informational message. The scheduler has disabled autorefresh for the specified cache group.
47038	Enabled autorefresh for cache group: <cache_group_name>	Informational message. The scheduler has enabled autorefresh for the specified cache group.
47043	Oracle Id not specified. Will not be able to perform autorefreshes.	Informational message. The OracleID attribute is not specified on the DSN. The cache agent cannot perform any autorefresh tasks
47044	Logging into Oracle	Informational message. Cache agent is logging into Oracle.

47045	Connected to Oracle	Informational message. The cache agent has connected to Oracle.
47046	Already connected for caching for <data_store_name>	Informational message. The cache agent is using an existing connection to Oracle to operate on data store.
47047	"Free error handle <handle_name>	Informational message. The cache agent is freeing an OCI error handle used when setting up a connection to Oracle.
47048	Processing Oracle SQL: <statement>.	Informational message. This message follows an error message. It indicates the error occurred while the cache agent was processing the specified Oracle SQL statement.
47049	Performing a full refresh with cache group root table: <owner>.<tablename>	Informational message. The cache agent is performing a full refresh on the specified table.
47050	Performing a full refresh	Informational message. The cache agent is performing a full refresh.
47051	restarting autorefresh for cache group: <cache_group_name>	Informational message. The cache agent is restarting the autorefresh for the specified cache group. This happens during cache agent startup.
47052	re-started autorefresh for <cache_group_name> cache groups	Informational message. The cache agent is restarting the autorefresh for the specified cache groups. This happens during cache agent startup.
47053	Error executing the following Oracle SQL statement: <statement>	Informational message. Oracle returned an error while executing the specified SQL statement. This may not be an error condition for the cache agent.
47054	TimesTen transaction committed.	Informational message. A TimesTen transaction has been committed.
47055	Autorefresh rolled back.	Informational message. An autorefresh operation has been rolled back.
47056	Performing an incremental refresh on table: <owner>.<table_name>	Informational message. The cache agent is performing an incremental autorefresh on the specified table.

47057	Oracle object busy. Will retry: <msecs>	Informational message. The Oracle object is being used by other user. The operation will be retried in <i>msecs</i> .
47058	Executing oracle statement: <statement>	Informational message. The indicated statement is being executed on the Oracle Database.
47059	Successfully executed Oracle SQL statement: <statement>	Informational message. The Oracle SQL statement has been successfully executed
47060	Performing a full refresh on subtree with root: <owner>.<tablename>	Informational message. The cache agent is performing a full refresh on a subtree of cache group with the specified root table.
47061	Error preparing the following Oracle SQL statement: %s	The cache agent encountered an error while preparing the specified SQL statement on Oracle.
47062	Rowid was 0 for cascadeUpDelete on table: <table_name>	This is an internal message indicating the intermediate steps of autorefresh.
47063	Executing Delete statement: <statement>	The cache agent executed the specified DELETE statement.
47064	Starting cleanup of the Oracle objects	Informational message. The cache agent has begun cleaning up Oracle objects that were used by autorefresh.
47065	Successfully executed Oracle SQL statement: <statement>	Informational message. The cache agent has successfully executed the indicated Oracle SQL statement.
47066	Cleanup of the Oracle objects completed	Informational message. The cache agent has finished cleaning up Oracle objects that were used by autorefresh.
47067	Lost connection to Oracle -- shutting down the cache agent, cmd: <command>	Informational message. The Oracle connection was lost while executing the indicated command. The cache agent is shutting down and will restart. If the cache agent does not start automatically, restart it manually.

47070	No new connection during shutdown	Informational message. A request of a new TimesTen/Oracle connection was denied because the cache agent is in the shutdown process. Wait for the cache agent to completely shutdown and then restart the agent and attempt the connection.
47071	Warning Ignored: <message>, ODBC SQL state = <SQL_state>, Additional Warning = <code>	Informational message. The cache agent has purposely ignored the TimesTen ODBC warning, the SQL state and the TimesTen warning code indicated in the message.
47072	Error Ignored: <message>, ODBC SQL state = <SQL_state>, Additional Error = <error_code>	Informational message. The cache agent has purposely ignored the TimesTen ODBC error, the SQL state and the TimesTen error code indicated in the message.
47073	Cannot connect to Oracle while the cache agent is during shutdown	Informational message. The cache agent cannot connect to Oracle while the cache agent shutting down.
47074	Cache agent is shutting down all service threads	Informational message. The cache agent is shutting down all service threads.
47075	Cache agent is in final shutdown stage	Informational message. The cache agent has shutdown all service threads and is in final shutdown mode
47076	Cache agent has started all service threads.	Informational message. The cache agent has started all service threads during startup.
47077	Cache agent for data store <data_store_name> is shutting down	Informational message. The cache agent is shutting down.
47078	Autorefresh succeeded for interval <msecs> milliseconds	Informational message. Autorefresh for interval <i>msecs</i> succeeded
47084	ftSchedulerGetRefreshStats: can not find cache group with cgID <ID>	Internal Error. TimesTen cannot find the indicated cache group.
47085	AUTOREFRESH advances to new LOG SEQ Log Seq(<num>) = <table_name> in cache group <cache_group_name>	The autorefresh bookmark for indicated table has been advanced to the indicated log sequence. This indicates the autorefresh has brought in some new changes to TimesTen

47086	Retry timeout is <mins> minutes.	The cache agent is waiting for an Oracle object to come alive. The cache agent will retry in the indicated number of minutes.
47087	Cache agent refreshed <number_of_rows> root table rows in cache group <cache_group_name>	Informational message. The cache agent refreshed the root table rows in the specified cache group.
47088	Cache agent refreshed <number> root table rows for this interval	Cache agent refreshed the indicated number of root table rows for this interval.
47090	DDL on base table after creating trigger - DDL has been executed on table <owner>.<table_name> after the cache group <cache_group_name> in data store <data_store_name> was created. The cache group may not be refreshed or may be out of sync.	The cache agent has that the Oracle table has been altered after an autorefresh cache group has been defined on it. As a result, the cache group may not refresh correctly.
47092	Cache group <cache_group_name> in data store <data_store_name> does not have autorefresh mode set to incremental. No validation is required.	Informational message. Autorefresh is not set for the specific cache group.
47093	Validation starting: Starting validation check for cache group <cache_group_name> in data store <data_store_name>.	Informational message. The cache agent is validating the Oracle objects for tracking changes for the indicated cache group.
47094	Anomalies were found in the objects used to autorefresh the cache group <cache_group_name> in data store <data_store_name>.	Informational message. The cache agent has found anomalies in autorefresh tracking objects for the indicated cache group.
47095	Anomalies were found in the objects used to autorefresh cache groups in refresh interval <msecs> for data store <data_store_name>.	Informational message. The cache agent has found anomalies in autorefresh tracking objects for the cache groups with the specified refresh interval.

47096	No anomalies were found in the objects used to autorefresh the cache group <cache_group_name> in data store <data_store_name>.	Informational message. Autorefresh validation has successfully completed
47097	Validation aborted: A fatal error occurred while validating cache groups in refresh interval <msecs> for data store <data_store_name>.	Informational message. The cache agent encountered an error while validating the autorefresh objects for the specified interval.
47098	Number of bipropagate rows deleted: <number_of_rows>	Informational message. The cache agent is tracking an operation on cache groups using both the autorefresh and propagate feature.
47100	The cache agent will wait at least <min> minutes before validating cache groups.	Informational message. The cache agent is waiting for at least the specified number of minutes before validating the autorefresh objects.
47107	Autorefresh thread is skipping marking the logs because it was not able to get the locks. Autorefresh will be performed but performance may degrade. Failed SQL: <statement>	The autorefrasher was not able to get the necessary locks to mark the log tables. Another autorefrasher may be marking the logs. The autorefrasher is skipping this step and move on to performing the autorefresh. The negative side effect of this is that the autorefrasher may perform some inserts twice.
47108	Autorefresh state for this cache group <cache_group_name> is no longer ON. Autorefresh will be retried after refreshing the new state	Informational message. The current autorefresh state for this cache group is not ON.
47109	Autorefresh mode for this cache group <cache_group_name> is no longer incremetal. Autorefresh will be retried after refreshing the new mode	Informational message. The autorefresh mode has changed for this cache group.
47110	object_id <object>, bookmark <bookmark_name>	Informational message. The autorefresh bookmark for the specified table.
47111	Cache agent successful in getting oneTruncator lock for garbage collection	Informational message. The cache agent has locked the oneTruncator autorefresh object successfully.



47112	Garbage collector deleted <num> rows from TTC_FT_OBJECT_PREFIX<obj>_L where logseq < <seq>	Informational message. The garbage collector deleted said number of rows.
47113	Log Table Marker marked %d rows of log table TTC_FT_OBJECT_PREFIX%s_L with logseq %s	Informational message. The progress of log marking for autorefresh.
47116	Detect Environment Variable: <variable_name>, Value: <value>	Informational message. The cache agent obtained a value from the indicated environment variable.
47117	Autorefresh thread for interval <msecs> ms is connected to instance <instance_name> on host <host_name>. Server handle <handle>	Informational message. The cache agent thread for autorefresh of cache groups with the specified autorefresh interval has connected to Oracle.
47118	Starting autorefresh for interval <msecs>ms	Informational message. The cache agent is starting an autorefresh with the specified autorefresh interval.
47119	Autorefresh finished for interval <msecs> ms	Informational message. Autorefresh has completed.
47120	Failing over connection. Failover type is <type>.	Informational message. The cache agent is starting an Oracle RAC failover of the indicated type, where type is one of: SESSION, SELECT or unknown.
47121	Failover completed.	Informational message. The failover has completed.
47122	Failover callback function called.	Informational message. The cache agent's registered Oracle RAC failover callback function has been called.
47123	Failover callback function registered for server handle <handle_name>	Informational message. The cache agent has registered an Oracle RAC callback function for failover
47125	%s thread for interval %UINT8_FMTms is connected to instance id %s. Server handle %UINTP_FMT	Informational message. The autorefresh thread for cache groups with the specified autorefresh interval has connected to Oracle.

47126	Failover stopped. Cache agent shutting down.	Informational message. The cache agent cannot do an Oracle RAC failover since the cache agent is already in shutdown mode.
47127	Autorefresh marker thread exiting.	Informational message. The autorefresh marker thread is exiting.
47128	Autorefresh garbage collector thread exiting.	Informational message. The autorefresh garbage collector thread is exiting.
47129	Autorefresh mode for this cache group <cache_group_name> is no longer full. Autorefresh will be retried after refreshing the new mode	Informational message. Autorefresh mode has changed for this cache group.
47130	Full autorefresh will be performed on the table <owner>.<table_name> because an initial load was not performed	Informational message. The application did not load the cache group after it was created. As a result, the first autorefresh is a full refresh.
47131	Lock info <object>:<lock>	Informational message. This is an internal message tracking locks on cache agent synchronization objects.
47132	Skipped reporting bookmark for object_id <object>	Informational message. The cache agent skipped a reporting bookmark for the table with the specified object ID.
47133	Error freeing odbc handle	Informational message. The cache agent encountered an error when it tried to free a TimesTen ODBC handle.
47135	Thread <thread_name> encountered an invalid value for argument <argument> while adding a cache group to the cache agent scheduler. Cache group <cache_group_name> will not be autorefreshed.	One of the arguments passed to a routine to add a cache group to the scheduler did not pass a validity check. The cache group is not added to the scheduler and therefore will not be autorefreshed.

## Server Event Log Entries

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This chapter describes messages that may be returned by the TimesTen Server.

By default, TimesTen messages are stored in:

- A user error log that contains information you may need to see. Generally, these messages contain information on actions you may need to take.
- A support log containing everything in the user error log plus information of use by TimesTen Customer Support.

For details on managing messages and the locations of the user and support logs, see ["Modifying informational messages"](#) in the *Oracle TimesTen In-Memory Database Operations Guide*.

### List of log entries

Event ID	Message	Description
1	Unable to open TTServer key from registry	Windows platform only. TimesTen Server could not open HKEY_LOCAL_MACHINE\SOFTWARE\TimesTen\TimesTen70\TTServer key from registry. Your TimesTen installation may be corrupted. Contact customer support for assistance.
2	TimesTen Server is stopping	This message is informational only.
3	Socket send() failed. <Error Message>	This message is caused by the failure of the system call <b>send</b> . Consult your system documentation to determine the cause of this error.
4	Server is exiting. Unable to create server context object (<CSrvCtx>)	An internal error occurred. Make a note of any information necessary to reproduce the error and then contact customer support for assistance.

Event ID	Message	Description
5	Socket recv() failed. <Error Message>	This message is caused by the failure of the system call <b>recv</b> . Consult your system documentation to determine the cause of this error.
6	Disconnecting client: <Client Host Name> (<fully qualified domain name>); IP Address: <IP address of the client machine>; Client PID: <process ID of the client driver>; DSN: <Server DSN>; UID: <Login ID sent by client>; Total connect time: <ddd hh:mm:ss>; Total execution time: <ddd hh:mm:ss>	This message is informational only. Could be used to match the connects and disconnects by TimesTen Client application to/from a TimesTen Server.
7	Unable to open the ODBC.INI data sources root	Windows platform only. TimesTen Server could not open HKEY_LOCAL_MACHINE\SOFTWARE\ODBC\ODBC.INI\ODBC Data Sources key from registry. Contact customer support for assistance.
8	Unable to read (numeric) port number from registry; using default port	Windows platform only. TimesTen Server could not read HKEY_LOCAL_MACHINE\SOFTWARE\TimesTen\TimesTen70\Servers\logical_server\TCP_Port from registry. Make sure that you did not modify registry entries manually.
9	Server is exiting. Could not cd to <path>. OS reports error(<error code>): <error message>	This message is caused by the failure of the system call <b>chdir</b> . Make sure that you have installed TimesTen properly and the directory exists. Consult your system documentation to determine the cause of this error.
10	Server is exiting. Could not connect to TimesTen daemon. Check to make sure that the TimesTen daemon/service is running	TimesTen Server communicates with TimesTen Data Manager daemon. Make sure that TimesTen Data Manager daemon/service is running.

Event ID	Message	Description
11	Main Server cleaned up all child processes and exiting.	ServerProc thread of TimesTen Server accepts all connection requests from TimesTen Client. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error.
12	Server is exiting. Failed to create shared memory segment for IPC. <error message>	This message is caused by the failure to create a shared memory segment for IPC. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error. This message is generated only for a connection that uses a shared memory segment as the IPC mechanism.
13	Server is exiting. Failed to attach to shared memory segment for IPC. <error message>	This message is caused by the failure to attach to a shared memory segment for IPC. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error. This message is generated only for a connection that uses a shared memory segment as the IPC mechanism.
14	Server is exiting. Failed to create semaphore for IPC. <error message>	This message is caused by the failure of a semaphore creation. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error. This message is generated only when TimesTen Server is configured to allow shared memory segment as IPC.

Event ID	Message	Description
15	Client application terminated. Terminating corresponding TimesTen child server process	This message implies that the TimesTen Server has lost a TCP/IP socket connection to the TimesTen Client ODBC driver (and hence the application) before the application closed the ODBC connection properly. This can happen only if the client application (or the thread that had the ODBC connection) exited without closing the ODBC connection. This message is generated only for a connection that uses a shared memory segment as the IPC mechanism.
16	Connect succeeded from client: <client host name> (<fully qualified domain name>); IP Address: <IP address of the client machine>; Client PID: <process ID of the client driver>; DSN: <Server DSN>; UID: <Login ID sent by client>	This message is informational only. Could be used to match the Connects and Disconnects by TimesTen Client application to/from a TimesTen Server.
17	Connect failed for client: <client host name> (<fully qualified domain name>); IP Address: <IP address of the client machine>; Client PID: <process ID of the client driver>; DSN: <Server DSN>; UID: <Login ID sent by client>; SQL State: <sql state>; Error: <error message from Timesten Data Manager driver>	This error is generated if <b>SQLDriverConnect</b> fails. The runtime error returned by the driver may indicate the cause of the error. The corrective action depends on the runtime error. For details, refer to the <i>Microsoft ODBC Programmer's Reference and SDK Guide</i> that is included with the ODBC SDK.

Event ID	Message	Description
18	Server is exiting. Failed to create REQUEST semaphore for IPC. Error Code = <OS error code>	TimesTen uses a pair of semaphores called REQUEST and RESPONSE to implement shared memory segment as IPC. This message is caused by the failure of a REQUEST semaphore creation. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error. This message is generated only when TimesTen Server is configured to allow shared memory segment as IPC.
19	Server is exiting. Failed to create RESPONSE semaphore for IPC. Error Code = <OS error code>	TimesTen uses a pair of semaphores called REQUEST and RESPONSE to implement shared memory segment as IPC. This message is caused by the failure of a RESPONSE semaphore creation. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error. This message is generated only when TimesTen Server is configured to allow shared memory segment as IPC.
20	Shared memory segment for IPC exhausted the configured maximum. File: <source_file_name>; line: <line_number>; size: <requested_size>	There is not enough space left in the configured shared memory segment for IPC. Please refer to <a href="#">"Managing the size of the shared memory segment"</a> in the <a href="#">Oracle TimesTen In-Memory Database Operations Guide</a> to configure this properly. This message generated only for a connection that uses a shared memory segment as the IPC mechanism.

Event ID	Message	Description
21	Server is exiting. Failed to open shared memory segment for IPS	This message is caused by the failure to create a shared memory segment for IPC. A log entry with EventId 99 just prior to this may contain additional information. Consult your system documentation to determine the cause of this error. This message is generated only for a connection that uses a shared memory segment as the IPC mechanism.
25	Server is exiting. Socket initialization failed. Error Code: <OS error code>	Windows platforms only. Call to WSASStartup failed. Consult your system documentation to determine the cause of this error.
26	Server is exiting. gethostname() failed. <error message>	On UNIX platforms the uname call failed.
27	Server is exiting. ttSetSockOptBool() failed. Error Code: <OS error code>	Failed to set a socket option of boolean type. Contact customer support for assistance.
32	Server is exiting. socket() failed. Error Code: <OS error code>	This message is caused by the failure of the system call socket. Consult your system documentation to determine the cause of this error.
33	Server is exiting. gethostbyname() failed. Error Code: <OS error code>	This message is sent if the system call gethostbyname fails. Consult your system documentation to determine the cause of this error.
34	Server is exiting. bind() failed. Error Code: <OS error code>	This message is caused by the failure of the system call bind. Consult your system documentation to determine the cause of this error.
35	Server is exiting. listen() failed. Error Code: <OS error code>	This message is caused by a failure of the system call listen. Consult your system documentation to determine the cause of this error.



Event ID	Message	Description
36	Successful TimesTen Server startup Version: <Server's Version number>; Host: <server host name> (<fully qualified domain name>); IP Address: <IP address of the server machine>; port: <port number>, max connections: <max connections allowed to the server>	This message is informational only.
37	Client version <client message protocol version number> is not supported, the current server version is <server message protocol version number >. Contact TimesTen support for instructions on how to download new versions of TimesTen Client/Server.	There is a version mismatch between the TimesTen Client and TimesTen Server
40	Server is exiting. Error Code: <OS error code>. A TimesTen Server is already active on this port.	An attempt was made to start the TimesTen Server on a machine where the same release of TimesTen Server is already running with the same port number. Each version of the TimesTen Server of the same release must have a unique port number.
50	accept() failed. Error Code: <OS error code>	This message is caused by the failure of the system call accept. Consult your system documentation to determine the cause of this error.
58	Error creating or mapping mapped file to communicate with separate server process. Error Code: <OS error code>	The event logged just prior to this one has further details, if any.
59	Error creating separate server process. Error Code: <OS error code>	Operating system error. Make a note of the system error number and then contact your system administrator.
60	Error creating waitpid thread. Error Code: <OS error code>	Operating system error. Make a note of the system error number and then contact your system administrator.

Event ID	Message	Description
61	Internal error in TimesTen Server. File: <source_file_name> Line: <line_number> Error Code: <OS error code>	Contact customer support for assistance.
62	Connection refused. Server is processing a configured maximum of <number> connections	The TimesTen Server can handle a maximum of 9999 concurrent client connections. This message means that the maximum number of clients are currently connected.
67	Failed to allocate memory. File: <source_file_name; line: <source_line_number>; size: <size of malloc that failed>	Note that sometimes the size is logged as zero if for some reason TimesTen Server cannot determine it at the time of logging.
99	<Log Message>	Certain informational/error messages are logged with this event id.

## *Diagnostics through SNMP Traps*

---

Simple Network Management Program (SNMP) is a protocol for network management services. Network management software typically uses SNMP to query or control the state of network devices like routers and switches. These devices sometimes also generate asynchronous alerts called Traps to inform the management systems of problems.

### **TimesTen and SNMP**

TimesTen cannot be queried nor controlled through SNMP. TimesTen only sends SNMP traps for certain critical events, to possibly facilitate some user recovery mechanisms. TimesTen can send traps for the following events:

- Assertion failure
- Death of daemons
- Data store invalid
- Replicated transaction failure
- Data store out of space
- Autorefresh transaction failure
- Replication conflict resolution
- File write errors

These events also cause log entries to be written by the TimesTen daemon, but exposing them through SNMP traps allows for the possibility of having some network management software take immediate action.

### **SNMP data types**

The SNMP data types are either INTEGER or TEXT.

ASN\_INTEGER data are:

ttPid	ttDaeInst	ttDaePid
ttDSNConn	ttRepReceiverPort	ttDSMaxSize
ttDSCurSize	ttDSReqSize	ttCacheAgentPid

The rest of the variables are ASN\_OCTET\_STRING type.

## Trapping out of space messages

By default, TimesTen records that data store space is low, based on the partition space thresholds, when either the permanent or temporary data store memory partition is 90 percent full. Once the data store becomes less than 90 percent full, TimesTen records a second message, indicating that the data store is no longer low on space.

When connecting to a data store, you can change the out of space threshold by setting the PermWarnThreshold and TempWarnThreshold attributes. See "[PermWarnThreshold](#)" and "[TempWarnThreshold](#)" in *Oracle TimesTen In-Memory Database API Reference Guide*.

## How TimesTen sends SNMP traps

SNMP traps are UDP/IP packets. Therefore, there is no guarantee of delivery, and it is not an error if there are no subscribers for the trap. TimesTen sends only SNMPv1 traps, which all network management systems should understand.

### Generating SNMP traps

To enable SNMP trap generation, remove the line `-enabled 0` in the `snmp.ini` file, or change 0 to 1 on that line. TimesTen does not generate SNMP traps by default because, in the case of repeated failures, such as an application that continues to attempt to insert new rows into a full data store, the application may experience a performance slowdown due to generation of SNMP traps.

TimesTen sends `SNMPv1` traps.

### Configuring the snmp.ini file

For root installations, the configuration file `/var/TimesTen/snmp.ini` on UNIX systems and `install_dir\srv\info\snmp.ini` on Windows systems enables or disables trap generation, controls the community string for SNMP traps, the target host and the target port on which to listen for traps.

---

**Note:** For non-root installations, the file is `install_dir/snmp.ini`.

---

The file contents are:

---

<code>enabled {0 1}</code>	Disable or enable SNMP trap generation.
----------------------------	---

---

<code>-community {string}</code>	The SNMP community string. Default is “public.”
<code>-trapdest {host:portnumber}</code>	<p>The SNMP agent hostname and port number where SNMP trap message are received. The default host is “localhost.” The default port number where the SNMP agent listens is 162.</p> <p>Up to 8 destinations may be specified.in the <code>snmp.ini</code> file, each with it’s and is not configurable dynamically.</p>

An optional environment variable `TT_SNMP_INI` can override the location of the `snmp.ini` file. If this variable is set, it should contain the full path of the SNMP sender configuration file, which can have a name other than `snmp.ini`.

**Example 3.1** To send messages and set one target destination, your `snmp.ini` file looks like this:

```
#Enable SNMP trap generation
-enabled 1

#Default community is "public"
-community "public"

#Default trap destination is "localhost" and default destination SNMP
trap port is 162
-trapdest "localhost:162"
```

**Example 3.2** To send messages and set multiple target destinations, your `snmp.ini` file looks like this:

```
#Enable SNMP trap generation
-enabled 0

#Default community is "public"
-community "public"

#Default trap destination is "localhost" and default destination SNMP
trap port is 162
-trapdest "localhost:162"
-trapdest "pluto:10999"
-trapdest "mymachine:189"
```

**Example 3.3** To disable trap generation, your `snmp.ini` file looks like this:

```
#Disable SNMP trap generation
-enabled 0

#Default community is "public"
-community "public"
```

```
#Default trap destination is "localhost" and default destination SNMP
trap port is 162
-trapdest "localhost:162"
```

---

If one or more of the options is not specified, or if the `snmp.ini` file is missing, then the default value for each option is used.

## Receiving SNMP traps

You must have network management software to receive SNMP traps.

For demonstration purposes, TimesTen ships the program `install_dir/demo/snmp/snmptrapd`, which listens for SNMP traps and prints them out or logs them to a file. See `install_dir/demo/snmp/README` for details on how to run this program.

### Trap truncation on overflow

The maximum packet size of a single trap is 1024 bytes. If there is more data than can fit into the 1024 byte limit, the trap is truncated to fit. In this case, the trap contains a `ttTrapTruncated` OID set to 1.

---

**Note:** `snmptrapd` is a part of the NET-SNMP project. See <http://net-snmp.sourceforge.net/> It is NOT supported by TimesTen in any way. You can also use the UCD-SNMP perl module from the CPAN <http://www.cpan.org/> directory to receive and act upon SNMP traps.

---

## The TimesTen MIB

A Management Information Base (MIB) is like a database schema. It describes the structure of the SNMP data. For more information about MIBs in general, please refer to the previously mentioned SNMP overview documents.

The MIB extension file, `install_dir/mibs/TimesTen-MIB.txt`, describes the structure of the TimesTen SNMP information.

The TimesTen OID is rooted at Private Enterprise 5549. The complete path to root is `iso.org.dod.internet.private.enterprise.TimesTen.*` or numerically, `1.3.6.1.4.1.5549.*`

## The traps

Every trap has a GMT timestamp of when the trap occurred, as well as the Process ID, user name (or User ID on UNIX systems) of the process, TimesTen instance name, TimesTen, release number and a trap specific Message. In addition, most traps provide additional information specific to that message. For example the `ttRepAgentDiedTrap` also provides the Replication Store ID. For a list of the variables for each trap see the `TimesTen-MIB.txt` file.

### Trap names and severity levels

TimesTen SNMP traps can be categorized by severity level. The information in the trap can be of the type:

- Informational
- Warning
- Error

The following table describes each trap and its severity level.

Trap name	Severity Level	Description
<code>ttAssertFailTrap</code>	Error	TimesTen Assertion Failure
<code>ttCacheAgentDiedTrap</code>	Error	TimesTen Cache Connect daemon died.
<code>ttCacheAgentFailoverTrap</code>	Warning	The Cache Agent detected that a connection to Oracle had been lost and has begun to recover the connection.
<code>ttCacheAutoRefQueFullTrap</code>	Warning	TimesTen Cache Connect auto-refresh queue is full.
<code>ttCacheIncAutoRefFailedTrap</code>	Error	TimesTen Cache Connect incremental autorefresh failed.
<code>ttCacheAwtRtReadFailedTrap</code>	Error	For Asynchronous Writethrough cache groups, runtime information is stored on the Oracle instance. While reading this information from Oracle, replication either could not find the runtime data table ( <code>tt_version_reppeers</code> ) or could not find the information within the table.

Trap name	Severity Level	Description
ttCacheAwtRtUpdateFailedTrap	Error	For Asynchronous Writethrough cache groups, runtime information is stored on the Oracle instance. While updating this information replication either could not find the runtime data table (tt_version_reppeers) or could not find the information within the table.
ttCacheRecoveryAutorefreshTrap	Warning	<p>The Cache Agent is performing a recovery autorefresh. This may be needed when:</p> <ul style="list-style-type: none"> <li>• A cache group was not loaded because it was created with autorefresh state ON or</li> <li>• A change log table on Oracle was truncated because of lack of tablespace for cache admin user.</li> </ul>
ttCacheValidationErrorTrap	Error	The Cache Agent has detected fatal anomalies with cache group <i>cache-group-name</i> that will prevent it from properly refreshing the cache group, or it has detected fatal anomalies within the refresh interval <i>time-in-ms</i> . Please refer to the user error log for details.
ttCacheValidationWarnTrap	Warning	The Cache Agent has detected anomalies with cache group <i>cache-group-name</i> that may prevent it from properly refreshing the cache group. Please refer to the user error log for details.
ttCacheValidationAbortedTrap	Error	The Cache Agent aborted cache group validation because of a fatal error. Please refer to the user error log for details.
ttDSCkptFailedTrap	Error	A checkpoint has failed
ttDaemonOutOfMemoryTrap	Error	Call to malloc failed in TimesTen daemon.
ttDSDataCorruptionTrap	Error	Data store corruption error has occurred.



Trap name	Severity Level	Description
ttDSGoingInvalidTrap	Error	<p>Setting data store to invalid state. Data store invalidation usually happens when an application that is connected to the data store is killed or exits abruptly without first disconnecting from the data store.</p> <p>If TimesTen encounters an unrecoverable internal error during a database operation, it may also invalidate the data store.</p> <p>You must commit or rollback and recover the data store.</p>
ttDSThreadCreateFailedTrap	Error	<p>A process (typically multi-threaded) having multiple connections to a data store exits abnormally. The subdaemon assigned to clean up the connections creates a separate thread for each connection. If creation of one of these threads fails, this trap is thrown. Thread creation may fail due to memory limitations or having too many threads in the system. After the trap is thrown, the thread creation is attempted four more times, with an increasingly longer pause between each attempt. The total time between the first and last attempt is approximately 30 seconds. If the fifth attempt fails, the data store is invalidated.</p>
ttFileWriteErrorTrap	Error	Error encountered during file I/O write.
ttMainDaemonExitingTrap	Informational	Main or sub daemons exiting normally.
ttMainDaemonDiedTrap	Error	<p>Main or sub daemons died abnormally. This message is sent by a subdaemon when it notices that the main daemon has died. It generally suggests that the main daemon has been killed or has crashed. You must restart the main daemon.</p>
ttMainDaemonReadyTrap	Informational	Main daemon has started.

Trap name	Severity Level	Description
ttPartitionSpaceExhaustedTrap	Error	Data store partition (permanent or temporary) space is exhausted. This message is sent when either the permanent or temporary free space in the data store is exhausted. Generally this message is preceded by the <a href="#">ttPartitionSpaceStateTrap</a> warning message. See " <a href="#">PermWarnThreshold</a> " or " <a href="#">SqlQueryTimeout</a> " in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> for information on how to set the threshold.
ttPartitionSpaceStateTrap	Warning	Data store partition (permanent or temporary) space is transitioning from OK to low or vice versa. This message is sent when either the permanent partition or the temporary partition free space in the data store reaches a threshold or transitions back below the threshold. See " <a href="#">PermWarnThreshold</a> " or " <a href="#">SqlQueryTimeout</a> " in <i>Oracle TimesTen In-Memory Database API Reference Guide</i> for information on how to set the threshold.
ttRepAgentClockSkewTrap	Error	Replication with a peer failed due to excessive clock skew. The skew between nodes in an active standby scheme has exceeded the allowed limit of 250ms.
ttRepAgentDiedTrap	Error	A replication agent has died abnormally. This message is sent when the main TimesTen daemon notices that a replication agent has died abnormally. This generally means that the replication agent has been killed or has crashed.
ttRepAgentExitingTrap	Informational	Replication agent exiting normally.
ttRepAgentStartingTrap	Informational	Replication agent starting.

Trap name	Severity Level	Description
ttRepCatchupStartTrap	Warning	Indicates that TimesTen has begun to restore a master from a subscriber where bi-directional replication has been configured, after a failure.
ttRepCatchupStopTrap	Warning	Indicates that TimesTen has restored a master data store from a subscriber, where bi-directional replication was configured.
ttRepReturnTransitionTrap	Warning	Replication return receipt has been enabled or disabled on the subscriber.
ttRepSubscriberFailedTrap	Error	Subscriber marked as failed because too much log accumulated on its behalf by the master.
ttRepTCPFailedTrap	Error	A replication TCP connection failed.
ttRepUpdateFailedTrap	Warning	A replication insert, update or delete operation failed.
ttUnexpectedEndOfLogTrap	Error/Warning	Premature end of log file reached during a data store recovery. If your application connected with <b>LogAutoTruncate=1</b> (the default), this trap represents a warning, recovery continues with error messages. If your application connected with <b>LogAutoTruncate=0</b> , recovery fails with error messages.

## Example

A typical TimesTen trap, printed with `snmptrapd`, looks like this:

```
Enterprise Specific Trap (ttDSGoingInvalidTrap) Uptime: 4:34:16
enterprises.timesten.ttSystem.ttTimeStamp = "2002-07-20 22:24:49
(GMT) "
enterprises.timesten.ttSystem.ttPid = 127
enterprises.timesten.ttSystem.ttUid = "SYSTEM"
enterprises.timesten.ttSystem.ttVersion = "@(#) TimesTen
Revision: 7.0.2.0.0 Date: 2007/02/02 18:24:10, instance giraffe"
enterprises.timesten.ttMsg, ttMesg "Data store going Invalid
(from master daemon)"
enterprises.timesten.ttDataStore.ttDSName = "tptbmda40"
```

```
enterprises.timesten.ttDataStore.ttDSShmKey =  
"DBI39775920.0.SHM.12"  
enterprises.timesten.ttDataStore.ttDSNConn = 2
```

---

This trap was generated from a TimesTen daemon running on a Windows system. The hostname of the system sending the trap is printed by `snmptrapd`. The Uptime field, which is required by SNMP, lists the elapsed time since the start of the process which generated this trap. In this case, the process `ttssrv40.exe` has been running for 4 hours, 34 minutes, and 16 seconds.

This specific trap is for the *Database going invalid* event. So additionally, it reports the data store name, shared memory key of the data store and the number of current connections to the data store.

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