Oracle® TimesTen In-Memory Database

Error Messages and SNMP Traps

11*g* Release 2 (11.2.2)

E21646-15

December 2014

ORACLE®

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Preface

Oracle TimesTen In-Memory Database (TimesTen) is a relational database that is memory-optimized for fast response and throughput. The database resides entirely in memory at runtime and is persisted to disk storage for the ability to recover and restart. Replication features allow high availability. TimesTen supports standard application interfaces JDBC, ODBC, and ODP.NET, in addition to Oracle interfaces PL/SQL, OCI, and Pro*C/C++. TimesTen is available separately or as a cache for Oracle Database.

Audience

This guide provides a reference of all TimesTen error messages and information on SNMP traps.

This document is intended for readers with a basic understanding of database systems.

Related documents

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

http://www.oracle.com/technetwork/database/database-technologies/timesten/documentation/index.html

Oracle Database documentation is also available on the Oracle Technology network. This may be especially useful for Oracle Database features that TimesTen supports but does not attempt to fully document.

http://www.oracle.com/pls/db112/homepage/

Conventions

TimesTen supports multiple platforms. Unless otherwise indicated, the information in this guide applies to all supported platforms. The term Windows refers to all supported Windows platforms and the term UNIX applies to all supported UNIX platforms, including Linux. See "Platforms" in *Oracle TimesTen In-Memory Database Release Notes* for specific platform versions supported by TimesTen.

> **Note:** In TimesTen documentation, the terms "data store" and "database" are equivalent. Both terms refer to the TimesTen database.

This document uses the following text conventions:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.
italic monospace	Italic monospace type indicates a variable in a code example that you must replace. For example: Driver=*install_dir*/lib/libtten.sl Replace *install_dir* with the path of your TimesTen installation directory.
[ ]	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:

Convention	Meaning
install_dir	The path that represents the directory where the current release of TimesTen is installed.
TTinstance	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.
bits or *bb*	Two digits, either 32 or 64, that represent either the 32-bit or 64-bit operating system.
release or *rr*	The first three parts in a release number, with or without dots. The first three parts of a release number represent a major TimesTen release. For example, 1122 or 11.2.2 represents TimesTen 11g Release 2 (11.2.2).
jdk_version	Two digits that represent the version number of the major JDK release. Specifically, 14 represent JDK 1.4; 5 represents JDK 5.
timesten	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.
DSN	The data source name.

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Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

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Warnings and Errors

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.

By default, TimesTen messages and diagnostic information are stored in:

- A user error log that contains error message information. Generally, these messages contain information on actions you may need to take. The default file is *daemon_home*/tterrors.log. For more information on modifying the location of the user error log, see "Modifying informational messages" in the *Oracle TimesTen In-Memory Database Operations Guide*.

- A support log containing everything in the user error log plus information that may be useful for TimesTen Customer Support. The default file is *daemon_home*/ttmesg.log. For more information on modifying the location of the support log, see "Modifying informational messages" in the *Oracle TimesTen In-Memory Database Operations Guide*.

- An invalidation file containing diagnostic information when TimesTen invalidates a database. This file provides useful troubleshooting information for TimesTen Customer Support. The invalidation file is created and named based on the value specified by the `DataStore` connection attribute. This connection attribute is not a file name. For example on Linux platforms, if the `DataStore` connection attribute is /home/ttuser/AdminData, the actual invalidation file name has a suffix, .inval, /home/ttuser/AdminData.inval. For more information on the `DataStore` connection attribute, see "DataStore" in the *Oracle TimesTen In-Memory Database Reference*.

> **Note:** Not all error numbers are currently in use.

Retrieving errors and warnings

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

Example 1–1 Native error code and message retrieval in JDBC

```
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.printSQLExceptions();
}
```

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

Example 1–2   Native error code and message retrieval in ODBC

```
#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`.

Error reporting in OCI, Pro*C and PL/SQL applications

TimesTen OCI and Pro*C applications, and those that use PL/SQL, report errors using Oracle database error codes instead of TimesTen error codes. The error messages that accompany the error codes may come from the TimesTen error catalog or the Oracle database error catalog.

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 Reference*.

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

List of errors and warnings

If an error is prefixed with "`Warning,`" the command completes but has a side effect the user should 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.

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 0 - 999

Error number	Error or warning message	Details
400	Data store header fails basic sanity test	**Type of Message:** Internal Error **Cause:** The checkpoint file contains inconsistent or corrupted information. **Impact:** You cannot load or recover from the checkpoint file. **User Action:** If you receive this error for both checkpoint files, restore your database from a backup. For more information, see "Migration, Backup, and Restoration" in the *Oracle TimesTen In-Memory Database Installation Guide*. For additional help, contact TimesTen Customer Support.
402	Cannot close data store file. OS-detected error: *os_error_number*	**Type of Message:** Internal Error **Cause:** While attempting to close the database file, the operating system encountered an error. **Impact:** You may be unable to connect to the database or load it into memory. **User Action:** Diagnose and troubleshoot the operating system error. Then, load the database into memory using `ttAdmin -ramload`. For more information, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*. For additional help, contact TimesTen Customer Support.

Error number	Error or warning message	Details
403	`Attempt to read from checkpoint truncated`	**Type of Message:** Internal Error **Cause:** During a checkpoint read, TimesTen detected that the checkpoint file contains less information than expected. **Impact:** You cannot load or recover from the checkpoint file. **User Action:** If you receive this error for both checkpoint files, restore your database from a backup. For more information, see "Migration, Backup, and Restoration" in the *Oracle TimesTen In-Memory Database Installation Guide*. For additional help, contact TimesTen Customer Support.
404	`Corrupted block header`	**Type of Message:** Internal Error **Cause:** The checkpoint file contains inconsistent or corrupted information. **Impact:** You cannot load or recover from the checkpoint file. **User Action:** If you receive this error for both checkpoint files, restore your database from a backup. For more information, see "Migration, Backup, and Restoration" in the *Oracle TimesTen In-Memory Database Installation Guide*. For additional help, contact TimesTen Customer Support.
406	`Incomplete write to file file_name. OS-detected error: os_error_number`	**Type of Message:** Error **Cause:** TimesTen failed to write to a file. **Impact:** The operation you attempted failed. **User Action:** Diagnose and troubleshoot the operating system error. Then, verify the functionality of the file system or device that holds the reported file. After verifying the functionality, retry the operation. If the problem persists, contact TimesTen Customer Support.
407	`Failed to seek in checkpoint file. OS-detected error: os_error_number`	**Type of Message:** Internal Error **Cause:** An attempt to seek within a checkpoint file has failed. An operating system call failed with the specified operating system error. **Impact:** If this error occurs while loading or recovering from a checkpoint file, the attempt fails with that particular checkpoint file. **User Action:** If this error occurred while performing a checkpoint, retry the checkpoint. If the second attempt fails or the error occurred for any other reason, contact TimesTen Customer Support.

Error number	Error or warning message	Details
408	Failed to sync checkpoint file `file_name` to disk. OS-detected error: `os_error_number`	**Type of Message:** Internal Error
		Cause: An attempt to synchronize a checkpoint file to disk has failed. An operating system call failed with the specified operating system error.
		Impact: If checkpoints keep failing, database recovery takes longer and transaction log files do not get purged.
		User Action: If this error occurred while performing a checkpoint, retry the checkpoint. If the second attempt fails or the error occurred for any other reason, contact TimesTen Customer Support.
409	Invalid checkpoint LSN	**Type of Message:** Internal Error
		Cause: The checkpoint file contains invalid internal information.
		Impact: The database cannot be recovered from the checkpoint file.
		User Action: Contact TimesTen Customer Support.
411	OS-detected error `error` while destroying directory `directory`	**Type of Message:** Error
		Cause: TimesTen cannot destroy the specified directory because of an operating system error.
		Impact: TimesTen cannot destroy the specified directory.
		User Action: Diagnose and troubleshoot the operating system error.
412	Bad file-open mode	Internal error. Contact TimesTen Customer Support.
413	Bad file-exists mode	Internal error. Contact TimesTen Customer Support.
414	Bad file-missing mode	Internal error. Contact TimesTen Customer Support.
415	Incompatible file-open modes	Internal error. Contact TimesTen Customer Support.
416	Block merge operation terminated due to high contention	**Type of Message:** Error
		Cause: The `ttCompact` built-in procedure failed to merge one or more blocks. Another operation is currently using one or more blocks.
		Impact: The `ttCompact` built-in procedure did not finish executing.
		User Action: Retry the operation using the `ttCompact` built-in procedure. For more information, see "ttCompact" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
420	Operation is not permitted over client-server connections	**Type of Message:** Error
		Cause: TimesTen cannot perform the operation in client/server connections, and it is only supported in direct connections.
		Impact: TimesTen cannot perform the operation.
		User Action: Attempt the operation over a direct connection. For information on defining DSNs for direct connections, see "Defining DSNs for direct or client/server connections" in the *Oracle TimesTen In-Memory Database Operations Guide.*
421	Invalid file handle (may have been closed by application)	**Type of Message:** Error
		Cause: The file handle that reads the transaction log unexpectedly closed. This error generally indicates an application programming error.
		Impact: Your application cannot read the transaction log.
		User Action: Check your application to see if it is improperly closing the file handle associated with the transaction log.
422	File handle repositioned (may have been read or written by application)	**Type of Message:** Error
		Cause: The file handle that reads the transaction log unexpectedly repositioned. This error generally indicates an application programming error.
		Impact: Your application cannot read the transaction log.
		User Action: Check your application to see if it is reading from or writing to the wrong file handle.
423	Log directory in NFS is not supported on this platform	**Type of Message:** Error
		Cause: You attempted to store transaction log files in a Windows network share.
		Impact: TimesTen does not support storing transaction log files in a Windows network share.
		User Action: Ensure that the transaction log directory is not in a Windows network share.
600	Checkpoint not done due to transaction commit/rollback failure	**Type of Message:** Error
		Cause: Commit or rollback of the transaction failed.
		Impact: Checkpointing was not attempted.
		User Action: Consider calling the ttCkpt built-in procedure to create a checkpoint. For more information, see "ttCkpt" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
601	Checkpoint failure	**Type of Message:** Error
		Cause: Checkpointing failed.
		Impact: TimesTen cannot create the checkpoint.
		User Action: Check that there is sufficient disk space and that database files are writable, then retry.
602	Transaction already has a pending fuzzy checkpoint request	**Type of Message:** Error
		Cause: A transaction attempted to perform a checkpoint, but the transaction has a pending checkpoint request.
		Impact: TimesTen cannot perform the checkpoint.
		User Action: Commit or rollback the current checkpoint transaction. Then, retry the checkpoint operation in a new transaction, using the ttCkpt built-in procedure. For more information, see "ttCkpt" in the *Oracle TimesTen In-Memory Database Reference*.
603	Transaction already has a pending checkpoint request	**Type of Message:** Error
		Cause: A transaction attempted to perform a fuzzy checkpoint. However, the transaction has a pending checkpoint request.
		Impact: TimesTen cannot perform the fuzzy checkpoint.
		User Action: Commit or rollback the current checkpoint transaction. Then, retry the fuzzy checkpoint operation in a new transaction, using the ttCkpt built-in procedure. For more information, see "ttCkpt" in the *Oracle TimesTen In-Memory Database Reference*.
604	Log missing record for checkpoint *file* (lsn *log_file_number.log_file_ offset*). *info*	**Type of Message:** Error
		Cause: The transaction log on disk may be truncated or corrupted. The transaction log may be missing log records related to the specified checkpoint file.
		Impact: TimesTen ignores the transaction log on disk, moves any existing log files to the specified directory, and recovers the database from the checkpoint files.
		User Action: None.
605	Checkpoint Log record (*number.number*) not present	**Type of Message:** Error
		Cause: The specified log record is either missing or corrupted. If the transaction log on disk has been truncated or otherwise corrupted, it may be missing log records corresponding to the checkpoints on disk.
		Impact: The database cannot be loaded into memory.
		User Action: Contact TimesTen Customer Support.

Error number	Error or warning message	Details
606	`Checkpoint cannot proceed because another checkpoint or backup is in progress`	**Type of Message:** Error **Cause:** TimesTen cannot execute a checkpoint operation cannot because another checkpoint or backup is in progress. **Impact:** The current checkpoint operation cannot begin. **User Action:** Wait until the backup or checkpoint has completed and retry the checkpoint operation.
607	`Backup cannot proceed because another checkpoint or backup is in progress`	**Type of Message:** Error **Cause:** TimesTen cannot execute a backup operation because another checkpoint or backup is in progress. **Impact:** The current backup operation cannot begin. **User Action:** Wait until the backup or checkpoint has completed and retry the backup operation. If you attempted a `ttRepAdmin -duplicate` operation, retry the operation.
608	`Another connection (# connection_id) has already configured table table_name for parallel insert`	**Type of Message:** Error **Cause:** This error message can only occur on an Exalytics Business Intelligence server. The `ttParallelInsertBegin` built-in procedure failed because another connection already configured the specified table for parallel insert mode. **Impact:** The specified table cannot be configured for parallel insert mode. **User Action:** Wait and retry the operation. Consider terminating the existing `ttParallelInsertBegin` built-in procedure by using the `ttParallelInsertEnd` built-in procedure.
609	`Data store failed validity check`	**Type of Message:** Internal Error **Cause:** TimesTen found an invalid database block while performing a checkpoint. **Impact:** The current checkpoint operation cannot complete. If several checkpoints fail in a row, the log files will start accumulating. **User Action:** Retry the checkpoint operation. If the problem persists, use the `ttAdmin` utility to unload and then reload the database into memory. For more information on the `ttAdmin` utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*. If this does not solve the error, contact TimesTen Customer Support.

Error number	Error or warning message	Details
610	End-checkpoint log record not found	**Type of Message:** Internal Error
		Cause: TimesTen cannot find a checkpoint related log record while loading the database into memory.
		Impact: The database cannot be loaded into memory.
		User Action: Contact TimesTen Customer Support.
611	Backup process died	**Type of Message:** Error
		Cause: The ttBackupStatus built-in procedure returns this error message when an in-progress backup was killed or died unexpectedly.
		Impact: TimesTen cannot to create a backup copy of the database.
		User Action: Attempt to create another backup of the database with the ttBackup utility. For more information on the ttBackup utility, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*. If this is a recurrent error, contact TimesTen Customer Support.
620	Another table (*table_name*) is already configured for parallel insert	**Type of Message:** Error
		Cause: This error message can only occur on an Exalytics Business Intelligence server. The ttParallelInsertBegin built-in procedure failed because another table is already configured for parallel insert mode. Only one table is allowed to be in parallel insert mode at any given time.
		Impact: The table you specified cannot be configured for parallel insert mode.
		User Action: Wait and retry the operation. Consider terminating the existing ttParallelInsertBegin built-in procedure by using the ttParallelInsertEnd built-in procedure.
621	Table *table_name* is already configured for parallel insert. To change parallelism, call ttParallelInsertEnd and then ttParallelInsertBegin again.	**Type of Message:** Error
		Cause: This error message can only occur on an Exalytics Business Intelligence server. The ttParallelInsertBegin built-in procedure failed because the specified table is already configured for parallel insert mode. Only one table is allowed to be in parallel insert mode at any given time.
		Impact: None.
		User Action: None.

Error number	Error or warning message	Details
622	User *user_name* does not have group permission to connect to data store	**Type of Message:** Error **Cause:** TimesTen cannot access the database files because the specified user does not have sufficient operating system file access permissions. **Impact:** TimesTen cannot connect to the database. **User Action:** Grant operating system file access permissions to the specified user. For more information, see "TimesTen instance administrators and users groups" in the *Oracle TimesTen In-Memory Database Installation Guide*.
623	User *user_name* does not have group permission to create data store	**Type of Message:** Error **Cause:** TimesTen cannot access the database files because the specified user does not have sufficient operating system file access permissions. **Impact:** TimesTen cannot load or destroy the database. **User Action:** Grant operating system file access permissions to the specified user. For more information, see "TimesTen instance administrators and users groups" in the *Oracle TimesTen In-Memory Database Installation Guide*.
629	No permission to access data store files	**Type of Message:** Error **Cause:** The TimesTen users does not have the file system permissions to access the data store files or directory. **Impact:** TimesTen cannot connect to or create a database from the specified directory. **User Action:** Ensure that the TimesTen user belongs to a user group that has the proper file system permissions for the data store files and directory. For more information, see "Directory and file permissions" in the *Oracle TimesTen In-Memory Database Installation Guide*.

Error number	Error or warning message	Details
649	Log file *file_name* has been purged	**Type of Message:** Warning
		Cause: TimesTen purged the specified log file. By default, TimesTen automatically removes archived transaction log files at checkpoint time.
		Impact: TimesTen removed the specified transaction log file from disk.
		User Action: To retain archived transaction log files, set the LogPurge attribute to 0 in the odbc.ini file for UNIX or in the ODBC Data Source Administrator for Windows. For more information on transaction log files, see "Managing transaction log buffers and files" in the *Oracle TimesTen In-Memory Database Operations Guide*. For more info on the LogPurge attribute, see "LogPurge" in the *Oracle TimesTen In-Memory Database Reference*.
650	Invalid backup type	**Type of Message:** Error
		Cause: The specified backup type is invalid.
		Impact: TimesTen cannot perform the backup.
		User Action: Specify a valid backup type. For more information about valid backup types, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*.
651	Backup path is not enabled for incremental backup	**Type of Message:** Error
		Cause: The backup file must be enabled for incremental backups when it is created.
		Impact: TimesTen cannot perform the incremental backup.
		User Action: Use the ttBackup -type option to enable incremental backups. For more information, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*.
652	Backup directory does not exist	**Type of Message:** Error
		Cause: The backup path you specified with the -dir option of the ttBackup utility does not exist.
		Impact: The backup cannot be performed.
		User Action: Create or specify a valid backup directory. For more information about the ttBackup utility, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
653	Operation is not permitted in parallel insert mode	**Type of Message:** Error **Cause:** This error message can only occur on an Exalytics Business Intelligence server. The operation failed because it is not permitted in parallel insert mode. When a table is configured for parallel insert mode, only INSERT operations are permitted. Also, the table ID of the target table must match the ID stored for the connection. **Impact:** The operation cannot be completed. **User Action:** Make sure you are performing INSERT operations on the table. Also, check that the table ID of the target table matches the ID stored for the connection.
654	Too many incremental-enabled backup directories	**Type of Message:** Error **Cause:** You attempted to create an incremental backup instance. TimesTen is already at the maximum supported number of incremental-enabled backup instances for this database. For more information on the supported number of incremental-enabled backup instances, see "Types of backup provided" in the *Oracle TimesTen In-Memory Database Installation Guide*. **Impact:** The incremental backup instance cannot be created. **User Action:** If you want to create a new incremental-enabled backup instance for this database, consider disabling incremental backups for another backup instance of this database. For more information on how to disable incremental backups, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*.
655	Global thread-pool limit (*thread-pool_limit*) reached - operation aborted	**Type of Message:** Error **Cause:** This error message can only occur on an Exalytics Business Intelligence server. The ttParallelInsertBegin built-in procedure failed because the limit of the global thread pool has been reached. **Impact:** The requested degree of parallelism cannot be obtained. **User Action:** Consider stopping parallel insert operations initiated by other connections. Then, retry the operation.

Error number	Error or warning message	Details
657	Backup path exceeds maximum length of *number* characters	**Type of Message:** Error **Cause:** The backup path you specified with the -dir option of the ttBackup utility exceeds the maximum supported path length. The error message indicates the maximum supported path length. **Impact:** The backup cannot be performed. **User Action:** Create or specify a path no longer than the maximum supported path length. For more information about the ttBackup utility, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*.
658	Backup point is behind backup's log hold	Internal error. Contact TimesTen Customer Support.
659	Backup is out of date	**Type of Message:** Error **Cause:** The backup files specified by the backup directory, or base name, or both are not from the database that TimesTen is trying to back up. The backup files may be from a previous database that had the same database path name but which has since been destroyed. **Impact:** TimesTen failed to create a backup of the database. **User Action:** Use the -force option of the ttBackup utility to overwrite the out-of-date backup file. For more information on how to use ttBackup -force, see "ttBackup" in the *Oracle TimesTen In-Memory Database Reference*.
660	Requested backup point cannot be honored because needed log files have been purged	Internal error. Contact TimesTen Customer Support.
661	Requested backup point cannot be honored because it is in the future	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
662	`Data store file file_name reflects unfinished restore operation.`	**Type of Message:** Error **Cause:** TimesTen cannot to recover from the specified database file because it is the result of an incomplete restore operation. Common causes for this are: - A user-initiated interruption of an in-progress restore operation. - An out of space condition in the file system that contains the database's checkpoint files. - A system failure. **Impact:** The TimesTen database cannot recover from the specified database file. **User Action:** Ensure that there is available disk space on the disk that contains your checkpoint files. If the disk is low on space, make more disk space available. Once you have made more disk space available, retry the restore operation.
664	`Log record size of number bytes exceeds maximum size of number bytes`	Internal error. Contact TimesTen Customer Support.
665	`The size of LogBufMB should be at least LogBufParallelism * 8`	**Type of Message:** Error **Cause:** You specified a value for the `LogBufMB` attribute that is too small. **Impact:** TimesTen cannot set the specified `LogBufMb` size. **User Action:** Increase the size of the `LogBufMB` attribute to a value that is at least eight times the value of `LogBufParallelism`. You can modify this attribute in the `odbc.ini` file for UNIX or in the ODBC Data Source Administrator for Windows. For more information on the `LogBufMB` attribute, see "LogBufMB" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
666	`ReplicationApplyOrdering cannot be 0 if ReplicationParallelism is greater than 1.`	If the number of replication threads is greater than 1, which configures the transmit and application of transactions in parallel, then configuration of an ordering mode is required in the `ReplicationApplyOrdering` attribute.
		The value of `ReplicationApplyOrdering` cannot be 0 if `ReplicationParallelism` is set to a value greater than 1.
		In the DSN `.ini` file change either `ReplicationApplyOrdering` to a supported nonzero value or `ReplicationParallelism` to 0 or 1.
		For more information about `ReplicationApplyOrdering`, see "ReplicationApplyOrdering" in the *Oracle TimesTen In-Memory Database Reference*. For more information about `ReplicationParallelism`, see "ReplicationParallelism" in the *Oracle TimesTen In-Memory Database Reference*.
668	`LogBufParallelism value of LogBufParallelism_value cannot be smaller than ReplicationParallelism value of ReplicationParallelism_value`	**Type of Message:** Error
		Cause: The value of the `ReplicationParallelism` data store attribute is greater than the value of the `LogBufParallelism` first connection attribute.
		Impact: TimesTen cannot create or connect to the database.
		User Action: Change the value of the `LogBufParallelism` attribute, or the value of the `ReplicationParallelism` attribute, or both values so that the value of the `ReplicationParallelism` attribute is not greater than the value of the `LogBufParallelism` attribute. For more information on the `LogBufParallelism` first connection attribute, see "LogBufParallelism" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ReplicationParallelism` data store attribute, see "ReplicationParallelism" in the *Oracle TimesTen In-Memory Database Reference*.
669	`Cannot change replication track within an active transaction.`	**Type of Message:** Error
		Cause: Your application is not allowed to change the parallel replication track in which it writes logs after it has started a transaction.
		Impact: TimesTen cannot change the replication track.
		User Action: None.
		For more information on parallel replication tracks, see "ReplicationTrack" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
670	Batch cursors cannot be used because replication tracks are not enabled. (ReplicationParallelism = *ReplicationParallelism_value* ReplicationApplyOrdering = *ReplApplyOrdering_setting*).	Internal error. Contact TimesTen Customer Support.
680	Global thread-pool limit (*thread_pool_limit*) reached - parallelism was set to *parallelism_value*	**Type of Message:** Warning **Cause:** This warning message can only occur on an Exalytics Business Intelligence server. The degree of parallelism you specified for the ttParallelInsertBegin built-procedure cannot be met because the global thread pool limit has been reached. **Impact:** TimesTen sets the degree of parallelism to the maximum possible value based on the current global thread pool limit. **User Action:** Consider increasing the global thread pool limit with the ttParallelOpsPoolSizeSet built-in procedure.
681	Parallel Insert is not supported on this platform	**Type of Message:** Error **Cause:** This error message can only occur on an Exalytics Business Intelligence server. You attempted to use the ttParallelInsertBegin built-in procedure on an unsupported platform. **Impact:** The ttParallelInsertBegin built-in procedure cannot be used on the current platform. **User Action:** None.
682	Global thread-pool limit was set to *global_thread_pool_limit* (max. allowable in this system)	**Type of Message:** Warning **Cause:** This warning message can only occur on an Exalytics Business Intelligence server. You specified a global thread pool limit that is greater than the maximum supported value. **Impact:** TimesTen sets the global thread pool to the maximum supported value. **User Action:** None.
683	Parallelism was set to *parallelism_value* (max. allowable value)	**Type of Message:** Warning **Cause:** This warning message can only occur on an Exalytics Business Intelligence server. The degree of parallelism you specified for the ttParallelInsertBegin built-in procedure cannot be set because it exceeds the maximum allowable value. **Impact:** TimesTen sets the degree of parallelism to the maximum allowable value. **User Action:** None.

Error number	Error or warning message	Details
684	No table is configured for parallel insert	**Type of Message:** Warning **Cause:** This warning message can only occur on an Exalytics Business Intelligence server. You attempted to call the ttParallelInsertEnd built-in procedure. However, the current connection has not started a parallel insert operation. **Impact:** None. **User Action:** None.
700	Waiting for other 'in flux' threads failed	Internal error. Contact TimesTen Customer Support.
701	Marking data store 'in flux' failed	Internal error. Contact TimesTen Customer Support.
702	Connect failed because max number of connections exceeded	**Type of Message:** Error **Cause:** TimesTen reached the maximum number of connections allowed for the database or instance. **Impact:** You cannot connect to the database. **User Action:** Consider disconnecting applications that are not using the database. For more information, see "System limits" in the *Oracle TimesTen In-Memory Database Reference*.
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 Customer Support.
704	Connecting to a data store undergoing recovery after invalidation	**Type of Message:** Error **Cause:** Another application connected to the database has failed; the RAM-resident version of the database is corrupted. **Impact:** You cannot connect to the database while it is being invalidated. **User Action:** Try to reconnect after the database invalidation completes.
706	Spawning a thread in the daemon failed	Internal error. Contact TimesTen Customer Support.
707	Attempt to connect to a data store that has been manually unloaded from RAM	**Type of Message:** Error **Cause:** The application failed to connect to a database because the RAM residence policy of the database is set to manual. Also, the database has been manually unloaded from RAM. **Impact:** Applications cannot connect to the database. **User Action:** Load the database into memory using ttAdmin -ramload. For more information, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
709	Adding new data store to catalog failed, OS error '*os_error_number*'	**Type of Message:** Error **Cause:** The TimesTen daemon cannot add the new database to the catalog. When a database is created, the daemon stores certain information about the database on disk. **Impact:** The daemon cannot add the new database to the catalog. **User Action:** Diagnose and troubleshoot the reported operating system error. Additional information about the issue may be found in the UNIX syslog or Windows Event Log. For UNIX, ensure that the daemon is running as the instance administrator.
711	Data store creation in progress, try later	**Type of Message:** Error **Cause:** The database is currently being created and, therefore, cannot be accessed. **Impact:** You cannot access the database. **User Action:** Wait until the database is created. Then, try to reconnect to the database.
712	Unable to lock data store memory segment, error *os_error_number*	1 (EPERM) - indicates that the daemon was started by a user other than the root user on Linux or a user without administrative privileges on Windows. Restart the daemon, as described in "Working with the TimesTen Data Manager Daemon" in the *Oracle TimesTen In-Memory Database Operations Guide*. 12 (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 MemoryLock attribute.
714	Log directory attribute does not match current value	**Type of Message:** Error **Cause:** The specified log directory for the connection does not match the log directory that was specified when the database was created. **Impact:** TimesTen cannot connect to the database and placed a warning for the directory name in conflict in the UNIX syslog or the Windows Event Log. **User Action:** Specify a correct LogDir connection attribute and try reconnecting. For more information on the LogDir attribute, see "LogDir" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
715	Unable to access log directory 'log_directory'. OS-detected error: os_error_details	**Type of Message:** Internal Error **Cause:** The path specified in the LogDir attribute is not accessible due to reasons described in os_error_details. **Impact:** TimesTen cannot perform the requested connect or disconnect operation. **User Action:** Change the LogDir attribute in the DSN to a valid directory or create the directory as needed. For more information about the LogDir attribute, see "LogDir" in the *Oracle TimesTen In-Memory Database Reference*.
716	Undo of dead connection failed	**Type of Message:** Internal Error **Cause:** TimesTen returns this error in the daemon log. TimesTen cannot recover after a user application was terminated abruptly. **Impact:** The database is unloaded from memory. **User Action:** You should not exit from a TimesTen application before all connections are disconnected. Use signal handlers to catch signals that set a variable indicating that all connections must disconnect. Contact TimesTen Customer Support.
717	Update of data store catalog entry failed	**Type of Message:** Error **Cause:** The TimesTen main daemon failed to update the DBI file in the daemon home directory to indicate a change in the meta-information about a database. Common causes for this are: - Your file system is full. - Ownership of the DBI file has changed. **Impact:** The database cannot be accessed. **User Action:** Check that your file system is not full. Also, check that file permission and ownership of the DBI file is correct. If the problem persists, contact TimesTen Customer Support.
720	Permission denied while opening directory directory_name	Permissions are not set correctly on the specified directory. Ensure that 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 Customer Support.
724	Log cursor has no current position	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
725	Log cursor is unpositioned	Internal error. Contact TimesTen Customer Support.
726	Log cursor is at end of log	Internal error. Contact TimesTen Customer Support.
743	*Action* is not permitted	**Type of Message:** Error **Cause:** You attempted to perform an action that is not supported by TimesTen. **Impact:** TimesTen cannot perform the attempted action. **User Action:** None.
744	Additional log data may exist after last valid log record (lsn *log_file_number*.*log_file_offset*)	**Type of Message:** Error **Cause:** TimesTen recovered from an operating system failure or an external event that corrupted one or more log files. **Impact:** 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. **User Action:** Recover the database from a backup or failover to a standby node. For additional help, contact TimesTen Customer Support.
745	Log file *file* contains partial log block (log file length = *log_file_length*)	**Type of Message:** Error **Cause:** TimesTen recovered from an operating system failure or an external event that corrupted one or more log files. **Impact:** Recovery has encountered a log file that ends with a partial log block, which suggests that one or more log records may have been lost. **User Action:** Recover the database from a backup or failover to a standby node. For additional help, contact TimesTen Customer Support.
746	Extra log files found after end of log (*log_file_offset* files, starting with *log_file_number*)	**Type of Message:** Error **Cause:** TimesTen recovered from an operating system failure or an external event that corrupted one or more log files. **Impact:** Recovery has encountered log files after the file containing the last complete and intact log record, which suggests that one or more log records may have been lost. **User Action:** Recover the database from a backup or failover to a standby node. For additional help, contact TimesTen Customer Support.

Error number	Error or warning message	Details
747	Log read encountered incomplete log record at location *log_record.log_number*	**Type of Message:** Error **Cause:** TimesTen recovered from an operating system failure or an external event that corrupted one or more log files. **Impact:** Recovery has encountered an incomplete log record after the logical end of the log, which suggests that one or more log records may have been lost. **User Action:** Recover the database from a backup or failover to a standby node. For additional help, contact TimesTen Customer Support.
748	Log ended unexpectedly at LSN *log_file_number.log_file_offset*; recovery terminated	**Type of Message:** Error **Cause:** TimesTen recovery encountered a defective log record at the specified LSN, and the LogAutoTruncate attribute is set to 0. **Impact:** TimesTen terminated recovery. Checkpoint and transaction log files remain unmodified. **User Action:** If possible, diagnose and troubleshoot the problem. Otherwise, contact TimesTen Customer Support. Do not modify or remove any TimesTen checkpoint or transaction log file without first creating a backup copy of the file. For more information on the LogAutoTruncate attribute, see "LogAutoTruncate" in the *Oracle TimesTen In-Memory Database Reference*.
749	Invalid log block found at location *log_file_number.log_file_offset* -- details: *error_description*	Internal error. Contact TimesTen Customer Support.
750	Log read encountered log record with incorrect LSN at location *log_file_number.log_file_offset* -- remainder of log ignored	**Type of Message:** Error **Cause:** TimesTen encountered an unexpected value while reading the log. The transaction log corruption is likely the result of a crash affecting the disk controller. **Impact:** During recovery, the transaction log is effectively truncated at the point of the unexpected value, and the operation continues. 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. **User Action:** 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, contact TimesTen Customer Support.

Error number	Error or warning message	Details
751	Log read encountered log record with bad length at location `log_file_number.log_file_offset` -- remainder of log ignored	**Type of Message:** Error **Cause:** TimesTen encountered an unexpected value while reading the log. The transaction log corruption is likely the result of a crash affecting the disk controller. **Impact:** During recovery, the transaction log is effectively truncated at the point of the unexpected value, and the operation continues. 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. **User Action:** 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, contact TimesTen Customer Support.
752	Log read encountered log record with bad type at location `log_file_number.log_file_offset` - remainder of log ignored	**Type of Message:** Error **Cause:** TimesTen encountered an unexpected value while reading the transaction log. The transaction log corruption is likely the result of a crash affecting the disk controller. **Impact:** During recovery, the transaction log is effectively truncated at the point of the unexpected value, and the operation continues. 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. **User Action:** 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, contact TimesTen Customer Support.
754	Cannot open log copy file `file_name`. OS-detected error: `error_details`	Internal error. Contact TimesTen Customer Support.
755	Cannot chmod log copy file `file_name`. OS-detected error: `error_details`	Internal error. Contact TimesTen Customer Support.
756	Cannot write to log copy file `file_name`: `error_details`	Internal error. Contact TimesTen Customer Support.
759	Log file `file_name` has invalid file header -- details: `error_description`	Internal error. Contact TimesTen Customer Support.
760	Attempt to read past the end of the log; LSN = `log_file_number.log_file_offset`	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
761	Cannot determine size of log file *file_name*. OS-detected error: *error_details*	Internal error. Contact TimesTen Customer Support.
762	Invalid log truncation LSN *log_file_number*.*log_file_offset*	Internal error. Contact TimesTen Customer Support.
763	Cannot truncate log file *file_name*. OS-detected error *error_details*	Internal error. Contact TimesTen Customer Support.
764	Cannot move away log file *file_*name. OS-detected error: *error_details*	Internal error. Contact TimesTen Customer Support.
765	Cannot create log file copy directory. OS-detected error *error_details*	Internal error. Contact TimesTen Customer Support.
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 Customer Support.
768	Cannot determine size of log reserve file *file_name*. OS-detected error: *error_details*	Internal error. Contact TimesTen Customer Support.
769	Log reserve file has invalid size *value*	Internal error. Contact TimesTen Customer Support.
770	Cannot open log reserve file *file_*name. OS-detected error: *os_error_details*	Internal error. Contact TimesTen Customer Support.
771	Cannot write log reserve file *file_name*. OS-detected error: *os_error_details*	Internal error. Contact TimesTen Customer Support.
772	Cannot seek in log reserve file *file_name*. OS-detected error: *os_error_details*	Internal error. Contact TimesTen Customer Support.
773	Cannot sync log reserve file *file_name*. OS-detected error: *os_error_details*	Internal error. Contact TimesTen Customer Support.
774	Cannot close log reserve file. OS-detected error: *os_error_details*	Internal error. Contact TimesTen Customer Support.
775	Cannot delete log reserve file *file*. OS-detected error: *os_error_details*	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
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 Customer Support.
777	Log reserve exhausted	Internal error. Contact TimesTen Customer Support.
778	Log write failed because filesystem is full; transaction must rollback	**Type of Message:** Error **Cause:** The file system that holds the transaction log directory is full. **Impact:** If your application has AUTOCOMMIT set to 0, your application must rollback the transaction. If your application has AUTOCOMMIT set to 1, the command fails and the application has no further responsibilities. **User Action:** You must terminate your transaction. For more information, see "Transaction autocommit behavior" in the *Oracle TimesTen In-Memory Database Operations Guide*.
779	Request denied; transaction must rollback because log filesystem is full	**Type of Message:** Error **Cause:** TimesTen is not accepting new requests for the transaction because error 778 was previously issued. **Impact:** TimesTen denied the request and performed a rollback of the transaction. **User Action:** None. For more information, see error 778.
780	Log file *file_name* not found	Internal error. Contact TimesTen Customer Support.
781	Cannot sync log file. OS-detected error: *error_details*	Internal error. Contact TimesTen Customer Support.
782	Cannot rename log file *file_name*. OS-detected error: *error_details*	Internal error. Contact TimesTen Customer Support.
783	Cannot sync log file even after retrying for *number* msec. OS-detected error: *error_details*	Internal error. Contact TimesTen Customer Support.
784	Log record type is disallowed at this time	Internal error. Contact TimesTen Customer Support.
785	No log record exists at LSN *log_file_number.log_file_offset*	Internal error. Contact TimesTen Customer Support.
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.

Error number	Error or warning message	Details
787	Log file size exceeds maximum size of *size* MB	**Type of Message:** Error **Cause:** The transaction log file size exceeds the maximum defined size for TimesTen. **Impact:** TimesTen could not set the specified value for the LogFileSize attribute. **User Action:** Set the transaction log file size to a smaller value than the maximum allowed limit. For more information, see "LogFileSize" in the *Oracle TimesTen In-Memory Database Reference*.
788	Log file size less than minimum size of *size* MB.	**Type of Message:** Error **Cause:** The transaction log file size is less than the minimum size allowed by TimesTen. **Impact:** TimesTen could not set the specified value for the LogFileSize attribute. **User Action:** Set the transaction log file size to a bigger value than the minimum allowed limit. For more information, see "LogFileSize" in the *Oracle TimesTen In-Memory Database Reference*.
789	LogFileSize size with parallel mode of replication is less than minimum size of 8* LogBufParallelism = *min_size* MB	**Type of Message:** Error **Cause:** You specified a value for the LogFileSize first connection attribute that is less than the minimum allowed value. **Impact:** TimesTen cannot create or connect to the database. **User Action:** Set the LogFileSize attribute to at least the specified value, eight times the value of the LogBufParallelism attribute, in the odbc.ini file for UNIX or in the ODBC Data Source Administrator for Windows. For more information on the LogFileSize attribute, see "LogFileSize" in the *Oracle TimesTen In-Memory Database Reference*.
790	Incomplete write to log file *file_name*. OS-detected error: *os_error*	Unable to write all bytes to the log. If this happens during commit, it may be due to limited disk space for reclaim. See the description of error 902 for more information.
791	Cannot communicate with subdaemon	**Type of Message:** Error **Cause:** The TimesTen subdaemon is not running. **Impact:** TimesTen could not connect to or disconnect from a subdaemon. **User Action:** Restart the TimesTen daemon once all applications have disconnected from the database. For more information on how to start the daemon, see "Working with the TimesTen Data Manager Daemon" in the *Oracle TimesTen In-Memory Database Operations Guide*.

Error number	Error or warning message	Details
792	Attempt to read from log file *file_name* truncated; *bytes_read num_bytes* bytes read	Unable to read all bytes from the log. Internal error. Contact TimesTen Customer Support.
793	No idle subdaemons	**Type of Message:** Error **Cause:** TimesTen does not have any idle subdaemons available. **Impact:** You cannot connect to the database. **User Action:** Increase the maximum number of subdaemons that the TimesTen daemon may spawn in the ttendaemon.options file. For more information, see "Changing the allowable number of subdaemons" in the *Oracle TimesTen In-Memory Database Operations Guide*.
794	Thread join failed	Internal error. Contact TimesTen Customer Support.
795	Protocol failure	Internal error. Contact TimesTen Customer Support.
796	Failed to initialize procedure *procedure_name* with arguments/results *argument/result_list*	Internal error. Contact TimesTen Customer Support.
797	Two threads using a single context	**Type of Message:** Error **Cause:** This error is issued by the debug version of the library. **Impact:** None. **User Action:** Contact TimesTen Customer Support.
798	Daemon reports error *error_number*	Daemon encountered a problem while TimesTen was creating a database, connecting to a database, disconnecting from a database or destroying a database.
799	Unable to connect to daemon; check daemon status	**Type of Message:** Error **Cause:** You attempted to create, connect, or destroy a database while the TimesTen daemon is not running. **Impact:** The operation was not successful. **User Action:** Start the daemon with the ttDaemonAdmin -start utility. For more information on the ttDaemonAdmin utility, see "ttDaemonAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
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.

Error number	Error or warning message	Details
802	Database *type_of_space* space exhausted	**Type of Message:** Error
		Cause: TimesTen cannot allocate memory from the heap. An additional error message indicates which memory region is full.
		Impact: The database cannot continue normal operations.
		User Action: Increase the size of the appropriate memory region by modifying the set value for the `PermSize` or the `TempSize` attribute. You must unload the database from memory for changes in the `PermSize` or the `TempSize` attribute to take effect. For more information on how to unload the database from memory, see "Unloading the database from memory" in the *Oracle TimesTen In-Memory Database Operations Guide*. For more information on the `PermSize` or the `TempSize` attribute, see "PermSize" or "TempSize", respectively, in the *Oracle TimesTen In-Memory Database Reference*.
803	Name length exceeds *char_limit* characters	**Type of Message:** Error
		Cause: You specified an identifier or user name that exceeds the maximum number of characters allowed for basic names.
		Impact: TimesTen cannot create the specified identifier or user name.
		User Action: Select an identifier or user name within the allowed length for basic names. For more information on the number of characters allowed for basic names, see "System Limits" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the creation of identifiers or user names, see "Creating or identifying users to the database" in the *Oracle TimesTen In-Memory Database Operations Guide*.
804	Internal error: unknown error code *error_string*	Internal error. Contact TimesTen Customer Support.
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 Customer Support.
807	Null pointer argument	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
808	`Operation not atomic (failed and not undone)`	**Type of Message:** Error **Cause:** Operation was not rolled back because logging was not enabled. **Impact:** Database may be inconsistent and may not be recoverable. **User Action:** You can try dumping and reloading the database using the `ttBulkCp` utility. You can also attempt the operation again with logging turned on (`Logging=1`). For more information about the `ttBulkCp` utility, see "ttBulkCp" in the *Oracle TimesTen In-Memory Database Reference*.
809	`Heap page directory overflow - cannot allocate space`	This error indicates that the database's allocation structures are full. Try freeing any items possible or compacting the database, using `ttCompact`, and retrying the operation. Disconnecting all connections and reconnecting may also free up some space. For more information about the `ttCompact` built-in procedure, see "ttCompact" in the *Oracle TimesTen In-Memory Database Reference*.
810	`Pointer does not reference the data store`	Internal error. Contact TimesTen Customer Support.
812	`Platform not supported` *`platform`*	**Type of Message:** Error **Cause:** Some characteristics of your system (that is, alignments, type sizes) do not match the expected values, this indicates an installation error. Common causes for this are: - The TimesTen installation was copied directly from another system. - The TimesTen installation is on a network or shared drive, and that installation was installed by a system with different characteristics than your actual system. **Impact:** TimesTen cannot run on your system until the installation issue is resolved. **User Action:** Reinstall TimesTen. For more information, see *Oracle TimesTen In-Memory Database Installation Guide*.

Error number	Error or warning message	Details
814	Size specified by '*attribute*' connection attribute is less than the minimum size of *megabyte_count* megabytes	**Type of Message:** Error **Cause:** The specified PermSize or TempSize value is less than the allowed minimum. **Impact:** TimesTen cannot create the database or failed to establish a connection to the database. **User Action:** Increase the value for the PermSize or TempSize attribute, or both, to at least the minimum size indicated. For more information on defining DSNs, see "Defining DSNs for direct or client/server connections" in the *Oracle TimesTen In-Memory Database Operations Guide*. For more information on the PermSize attribute, see "PermSize" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the TempSize attribute, see "TempSize" in the *Oracle TimesTen In-Memory Database Reference*.
817	Internal error - TimesTen initialization failed	Internal error. Contact TimesTen Customer Support.
818	Sum of permanent and temporary region sizes (*size* MB) exceeds maximum size (*max_size* MB) allowed on this platform	During a database 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 database whose release is not recognized by the current release of TimesTen. Database must be upgraded to current release.
820	Cannot destroy data store logs	Unable to remove the database logs because of an operating system error, such as "File in use."
821	No readable checkpoint files. OS error: '*os_error_number*'. Consider connecting with Overwrite=1 to create new data store	**Type of Message:** Error **Cause:** TimesTen attempted to connect to a database that has been deleted and where both checkpoint files are missing. **Impact:** TimesTen cannot connect to the specified database. **User Action:** Connect to the database with the Overwrite attribute set to 1 in the connection string to create a new database. For more information on the Overwrite attribute, see "Overwrite" in the *Oracle TimesTen In-Memory Database Reference*.
823	Compact operation not fully completed	This warning is issued when a compaction operation cannot 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. *Operation* was at line *number*	The operation failed, but error information was lost. Contact TimesTen Customer Support regarding this lost error information.

Error number	Error or warning message	Details
826	Temporary data store exists but is unattached	**Type of Message:** Error **Cause:** TimesTen cannot connect to a temporary database (`Temporary` attribute set) that is not attached to an application process. **Impact:** TimesTen cannot create or connect to the specified database. **User Action:** Destroy the temporary database with the `ttDestroy` utility, or set the `AutoCreate` and `Overwrite` attributes to 1 to overwrite the database. For more information on temporary databases, see "Temporary" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `AutoCreate` or `Overwrite` attribute, see "AutoCreate" or "Overwrite", respectively, in the *Oracle TimesTen In-Memory Database Reference*. For more information on the use of the `ttDestroy` utility, see "ttDestroy" in the *Oracle TimesTen In-Memory Database Reference*.
829	Bad options: Cannot copy logging options if first connection	**Type of Message:** Error **Cause:** The `MatchLogOpts` attribute is set to 1. **Impact:** TimesTen cannot create or connect to the database. **User Action:** For UNIX, set the `MatchLogOpts` attribute to 0 in the `odbc.ini` file. For Windows, uncheck the Match Log Opts check box in the Windows ODBC Data Source Administrator. For more information on the `MatchLogOpts` attribute, see "MatchLogOpts" in the *Oracle TimesTen In-Memory Database Reference*.
830	Cannot create data store file. OS-detected error: *error_text*	**Type of Message:** Error **Cause:** TimesTen is unable to overwrite an existing database or create the database checkpoint files because of an operating system error. **Impact:** You cannot create the database. **User Action:** Diagnose and troubleshoot the operating system error.
831	Cannot change mode on data store file, error *error_text*	Unable to change the permissions on the database file during a database 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 database file for reading during a database connection operation because of an operating system error such as file system permission problems.

Error number	Error or warning message	Details
833	Data store *data_store_name* not found	**Type of Message:** Error
		Cause: You attempted to destroy the specified database from the `odbc.ini` file. However, the specified database has already been destroyed or was never created.
		Impact: TimesTen cannot destroy the specified database.
		User Action: Verify the database name and retry the operation.
834	Data store file invalid or corrupted	**Type of Message:** Error
		Cause: During recovery or a database connection operation the database file was found to be corrupted.
		Impact: You cannot use the TimesTen database.
		User Action: Recover the database from a backup or failover to a standby node. For more information, see "General failover and recovery procedures" in the *Oracle TimesTen In-Memory Database Replication Guide*. For additional help, contact TimesTen Customer Support.
835	Data store file *file_name* reflects unfinished checkpoint	**Type of Message:** Error
		Cause: Either the application failed when writing the checkpoint or that there was not sufficient disk space to store the checkpoint.
		Impact: TimesTen cannot recover from the specified database file because the file is incomplete. Generally a connection is still possible when you receive this error because TimesTen saves two different checkpoints.
		User Action: Ensure that there is sufficient disk space to store the checkpoint and retry creating the checkpoint. For more information, see "Check transaction log file use of disk space" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
836	`Cannot create data store shared memory segment, error os_error_number`	**Type of Message:** Error
		Cause: Unable to create a shared memory segment during a database creation or database connection operation.
		On UNIX or Linux systems, the `shmget` call can receive UNIX error `EINVAL` due to an inability to allocate a shared memory segment of the requested size. Common causes for this are:
		- The daemon is configured to use huge pages but huge pages are not configured or unavailable (under configured or being used by another process) on the system.
		- The operating system denies the request because the kernel parameters `shmmax` or `shmall` are set too low.
		- The configured swap space is insufficient for the requested shared memory segment. It is possible that some UNIX or Linux systems have additional possible causes for the error. The `shmget` man page lists the possibilities.
		Impact: You may be unable to connect to the database or load it into memory.
		User Action: Diagnose and troubleshoot the operating system error. For more information see "Manage semaphores and shared memory segments" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
837	Cannot attach data store shared memory segment, error *os_error_number*	**Type of Message:** Error
		Cause: Unable to attach the database to the shared memory segment.
		On UNIX or Linux systems, the `shmat` call can fail due to one of:
		- The application does not have access to the shared memory segment. In this case the system error code is `EACCESS`.
		- 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 `ENOMEM`.
		- The attach exceeds the system limit on the number of shared memory segments for the process. In this case the system error code is `EMFILE`. It is possible that some UNIX or Linux systems have additional possible causes for the error. The `shmat` man page lists the possibilities. On Windows systems, the error could occur because of one of these reasons:
		- Access denied.
		- The system has no handles available.
		- The segment cannot be fit into the data section.
		Impact: You may be unable to connect to the database or load it into memory.
		User Action: Diagnose and troubleshoot the operating system error. For more information see "Manage semaphores and shared memory segments" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
838	`Cannot get data store shared memory segment, error os_error_number`	**Type of Message:** Error
		Cause: Unable to access a shared memory segment during a database creation or database connection operation.
		On UNIX or Linux systems, the `shmget` call can receive UNIX error `EINVAL` due to an inability to allocate a shared memory segment of the requested size. Common causes for this are:
		- The daemon is configured to use huge pages but huge pages are not configured or unavailable (under configured or being used by another process) on the system.
		- The operating system denies the request because the kernel parameters `shmmax` or `shmall` are set too low.
		- The configured swap space is insufficient for the requested shared memory segment. It is possible that some UNIX or Linux systems have additional possible causes for the error. The `shmget` man page lists the possibilities.
		Impact: You may be unable to connect to the database or load it into memory.
		User Action: Diagnose and troubleshoot the operating system error. For more information see "Manage semaphores and shared memory segments" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
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.	**Type of Message:** Error **Cause:** TimesTen is unable to overwrite an existing database because a database with the same DSN is in use, or loaded into RAM, or both. **Impact:** You cannot create the database. **User Action:** Before you can overwrite an existing database, you must first unload the database from memory, close all active connections, set the RAM policy of the database to manual or inUse, or a combination of all of the above. - To unload the database from memory, use the ttStatus utility to find processes connected to the database and stop them. Then use the -ramUnload option of the ttAdmin utility to unload the database from memory. For more information on the ttAdmin or ttStatus utility, see "ttAdmin" or "ttStatus", respectively, in the *Oracle TimesTen In-Memory Database Reference*. - To set the RAM policy to manual or inUse, see "Specifying a RAM policy" in the *Oracle TimesTen In-Memory Database Operations Guide*. - If you do not want to overwrite an existing database, set the Overwrite attribute to 0. For more information on the Overwrite attribute, see "Overwrite" in the *Oracle TimesTen In-Memory Database Reference*.
840	Cannot allocate space *byte_count* for non-shared data store	Unable to allocate memory for the database header of a non-sharable database during a database creation or database connection operation. Not enough available swap space or physical memory. On Sun and IBM systems the data space limit may be increased with the command `/usr/bin/ulimit -d` *n* This command is built in some shells, in which case the shell may take precedence. For csh and tcsh: `limit datasize` *n* For bash: `ulimit -d` *n* For ksh, zsh and posix shells (sh or sh-posix): `ulimit -d` *n* `# this is kbytes` Bourne shells (sh or sh-bourne) have no built-in but may fall back on `/usr/bin/ulimit`.

Error number	Error or warning message	Details
841	Cannot detach data store shared memory segment, error *os_error_number*	**Type of Message:** Internal Error **Cause:** Unable to detach a shared memory segment during a disconnect from database operation.On UNIX or Linux systems, the shmdt call can receive UNIX error EINVAL. Common causes for this are: - There is no shared memory segment attached at shmaddr. - shmaddr is not aligned on a page boundary. It is possible that some UNIX or Linux systems have additional possible causes for the error. The shmdt man page lists the possibilities. **Impact:** The process that encounters this error is still attached to the shared memory segment. This may be problematic if this process is still running when an attempt is made to release the shared memory segment back to the operating system. **User Action:** Contact TimesTen Customer Support.
842	Invalid data store identifier	Internal error. Contact TimesTen Customer Support.
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 database file during creation of a database 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 database file during a database connection operation.
846	Data store connection invalid or not current	To execute the current operation, an existing valid database connection was expected but not detected.
847	Cannot open data store file for writing. OS-detected error: *error_details*	Unable to open a database file for writing during an initiation of a checkpoint because of an operating system error such as file system permission problems.

Error number	Error or warning message	Details
848	Recovery failed on *number* sets of data store files; the TimesTen error log has more information	**Type of Message:** Error **Cause:** Recovery failed on one or more checkpoint files. The user error log contains warning messages that indicate where the problem occurred. **Impact:** Review the warning messages in the user error log for possible impacts on the system. **User Action:** Recover the database from a backup or failover to a standby node. For more information, see "General failover and recovery procedures" in the *Oracle TimesTen In-Memory Database Replication Guide*. For additional help, contact TimesTen Customer Support.
849	Recovery failed on *number* sets of data store files; try connecting with a larger data store size	**Type of Message:** Error **Cause:** Recovery failed on one or more checkpoint files. During recovery, the database ran out of available disk space. **Impact:** The database cannot continue normal operations. **User Action:** Increase the value of the PermSize attribute so that your database has at least five percent available space on the permanent memory region. For more information on how to check the amount of memory in use by the database, see "Check the amount of memory allocated to the database" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*. For more information on how to increase the value of PermSize, see "Specifying the size of a database" in the *Oracle TimesTen In-Memory Database Operations Guide*. If you increase the PermSize attribute and still receive this error, contact TimesTen Customer Support.
850	Application has existing connection to data store	Unable to create, connect to or destroy a database because the application has an existing connection to the database.
851	Cannot destroy data store file: *file*	Warning: unable to destroy the database file during a database connection or destroy database operation because of an operating system error such as file system permission problems.

Error number	Error or warning message	Details
852	Unable to lock data store memory segment, error *error_number* ...continuing with connection...	The system was unable to lock memory, but the error was ignored as per the MemoryLock attribute value. **1** - indicates that the daemon was started by a user other than the instance administrator. Restart the daemon as the instance administrator. **12** - 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 MemoryLock attribute.
854	Data store *data_store_name* already exists	Unable to create a database because it already exists. Either use ttDestroy to destroy the existing database or connect with the Overwrite attribute set.
855	Top level heap not defined	Internal error. Contact TimesTen Customer Support.
857	Invalid flags for heap creation	Internal error. Contact TimesTen Customer Support.
860	Invalid savepoint	Internal error. Contact TimesTen Customer Support.
862	Number of active transactions exceeds the maximum	Internal error. Contact TimesTen Customer Support.
863	Operation requires an active transaction	**Type of Message:** Error **Cause:** When encountered during LOB operations, this error means the LOB reference has been invalidated due to transaction commit or rollback. **Impact:** The operation you attempted failed. **User Action:** In non-LOB contexts, this is an internal error. Contact TimesTen Customer Support in this case.
864	Operation prohibited with an active transaction.	Internal error. Contact TimesTen Customer Support.
865	Cannot destroy log file *file_name*. OS-detected error: *error_details*	Unable to destroy the log file during a database creation, database connection or destroy database operation because of an operating system 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.
870	Cannot close data store shared memory segment, error *error_number*	Warning: Unable to close shared memory segment handle after detaching the segment.

Error number	Error or warning message	Details
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 limit. Decrease the number or length of the columns in the table (only length of non-variable types matters). For more information on system limits, see "System limits and defaults" in the *Oracle TimesTen In-Memory Database Reference*.
875	Invalid or missing column number in column descriptor	Internal error. Contact TimesTen Customer Support.
876	Overlapping columns in column descriptor	Internal error. Contact TimesTen Customer Support.
877	Misaligned columns in column descriptor	Internal error. Contact TimesTen Customer Support.
878	Invalid column number	**Type of Message:** Internal Error **Cause:** Column number is not valid. Note that column numbers start at 1 (not 0). **Impact:** The operation you attempted failed. **User Action:** Contact TimesTen Customer Support.
879	Table *owner*.*table* has existing primary index	Internal error. Contact TimesTen Customer Support.
880	Cannot create index; table has maximum of *max_indexes* indexes	**Type of Message:** Error **Cause:** You attempted a CREATE INDEX statement on a table that has reached the maximum number of indexes per table. **Impact:** TimesTen cannot perform the operation. **User Action:** Consider using the DROP INDEX statement to remove an existing index that you no longer use from the table and retry the operation. For more information on CREATE INDEX, see "CREATE INDEX" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on DROP INDEX, see "DROP INDEX" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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 Customer Support.
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 Customer Support.
885	Invalid T-tree index *index_name*	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
886	Index operation unsupported	Internal error. Contact TimesTen Customer Support.
887	Table has no primary index	Internal error. Contact TimesTen Customer Support.
888	Tail log truncated at position *n.n*. (where *n* is a long integer)	**Type of Message:** Error **Cause:** Recovery was unable to read the log past the specified LSN. **Impact:** The log was truncated at that point to allow recovery to continue. **User Action:** You may want to review the original pre-truncated log file. This log file can be found in a directory called savedLogFiles, which is a subdirectory of the log directory of the database.
889	Number of log files exceeded the maximum	Cannot create a transaction log file because the number of transaction log files that currently exists is at the maximum of 9,999. Roll back and perform a checkpoint. See "Checkpoint operations" in the *Oracle TimesTen In-Memory Database Operations Guide*.
890	Log file name too long	Internal error. Contact TimesTen Customer Support.
891	Log file *file_name* already exists	Internal error. Contact TimesTen Customer Support.
892	Cannot create log file *file*. OS-detected error: *os_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: *os_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: *os_error_details*	While attempting to write to a log file, the operating system encountered an error such as file system permission problems.
895	Cannot close log file. OS-detected error: *os_error_number*	Internal error. Contact TimesTen Customer Support.
896	Cannot read log file *file_name*. OS-detected error: *os_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: *os_error_details*	Internal error. Contact TimesTen Customer Support.
898	Log record exceeds maximum size of log file	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
899	Log buffer size exceeds maximum size of *maximum_size* MB	**Type of Message:** Error **Cause:** You have specified a log buffer size value that exceeds the log buffer size limit. For more information on the log buffer size limit, see "LogBufMB" in the *Oracle TimesTen In-Memory Database Reference*. **Impact:** You cannot create or connect to the database. **User Action:** Call the ttConfiguration built-in procedure to check the current value of LogBufMB. If the current value of LogBufMB exceeds the log buffer size limit, modify the value of LogBufMB to a supported value. For more information on ttConfiguration, see "ttConfiguration" in the *Oracle TimesTen In-Memory Database Reference*. For more information on modifying the value of LogBufMB, see "LogBufMB" in the *Oracle TimesTen In-Memory Database Reference*.
900	Cannot generate temporary file name	Internal error. Contact TimesTen Customer Support.
901	Cannot create file *file_name* for reclaim records: OS-detected error: *os_error_details*	Unable to create a temporary file to be used to spool the headers of reclaimed log records.
902	Cannot write file *file_name* for reclaim records: OS-detected error: *os_error_details*	Unable to write to the temporary file used to spool the headers of reclaimed transaction log records. Ensure that 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: *os_error_details*	Internal error. Contact TimesTen Customer Support.
904	Cannot read file *file_name* for reclaim records: OS-detected error: *os_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 Customer Support.
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.

Error number	Error or warning message	Details
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 Customer Support.
908	Key not found in *object_name*	Internal error. Contact TimesTen Customer Support.
909	Cannot update primary key or hash key	Cannot update values in the primary key columns or hash key columns of a table.
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 Customer Support.
913	MaxCnt exceeds *limit*	Internal error. Contact TimesTen Customer Support.
914	*table* 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 Customer Support.
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 "Column Definition" in *Oracle TimesTen In-Memory Database SQL Reference*.
921	Unsupported column type	Data type is recognized by the parser but is not currently supported.
922	Invalid row identifier	Internal error. Contact TimesTen Customer Support.
923	Invalid row implementation	Internal error. Contact TimesTen Customer Support.
924	Row implementation unsupported for operation	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
925	Cannot create data store semaphores *error_info*	**Type of Message:** Error **Cause:** Unable to create a semaphore during a database creation or database connection operation. This error usually indicates that your system is not tuned for TimesTen. **Impact:** Cannot create database semaphores. **User Action:** Tune your system for TimesTen. For more information, see "Installation prerequisites" in the *Oracle TimesTen In-Memory Database Installation Guide*.
926	Cannot create data store latch (*error_number*, *info extra_info*	**Type of Message:** Error **Cause:** On Windows, there is a shortage of system resources such as "named events." **Impact:** Cannot create database latch. **User Action:** End any stray processes that are running. If that does not help, restart the system. If the problem persists, contact TimesTen Customer Support.
927	Cannot open data store semaphore (*number*) *number*	**Type of Message:** Error **Cause:** On Windows, there is a shortage of system resources such as "named events." **Impact:** Cannot open the database semaphore. **User Action:** End any stray processes that are running. If that does not help, restart the system. If the problem persists, contact TimesTen Customer Support.
928	Error in semaphore operation (error *error_number*)	**Type of Message:** Error **Cause:** An operating system semaphore operation failed. **Impact:** The severity of the impact is unknown and requires additional diagnosis. **User Action:** Contact TimesTen Customer Support.
931	Data store has maximum number of connections	Unable to create a connection to the database 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 or column name involved.
933	Invalid SQL string	SQL string is NULL.
934	Invalid binary string	A 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 Customer Support.

Error number	Error or warning message	Details
936	SQL statement may return multiple results	Internal error. Contact TimesTen Customer Support.
937	Invalid compiled command number	Internal error. Contact TimesTen Customer Support.
938	SQL statement has arguments	Internal error. Contact TimesTen Customer Support.
939	SQL statement has no arguments	Internal error. Contact TimesTen Customer Support.
940	SQL command has too many results	A maximum of 32,767 projected expressions are allowed for a single SELECT 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 Customer Support.
946	SQL command is no longer valid	**Type of Message:** Error **Cause:** The command has been invalidated. This may happen as the result of some DDL operations, such as ALTER TABLE, CREATE INDEX, DROP INDEX, or a modification of optimizer statistics. TimesTen cannot re-prepare the command. **Impact:** In some cases, TimesTen attempts to re-prepare the command. In other cases, such as if a table has been dropped and re-created, TimesTen does not attempt to re-prepare the command. **User Action:** Restart your application. If you still receive this error, attempt to re-prepare the command.
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 Customer Support.
950	Invalid format width	Internal error. Contact TimesTen Customer Support.
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 Customer Support.

Error number	Error or warning message	Details
954	SQL command has mismatched version number	Internal error. Contact TimesTen Customer Support.
955	Current Connections attribute setting (*setting*) exceeded by this connection.	**Type of Message:** Error **Cause:** You attempted to connect to a database that has reached the maximum number of user-specified concurrent connections. **Impact:** You cannot connect to the database. **User Action:** Modify the value of the Connections attribute to increase the maximum number of user-specified concurrent connections. You can modify this attribute in the odbc.ini file for UNIX or in the ODBC Data Source Administrator for Windows. The database must be unloaded from memory for the change to take effect. For more information on the Connections attribute, see "Connections" in the *Oracle TimesTen In-Memory Database Reference*.
956	Merge statement cannot update a primary key	You are attempting to update a primary key through a MERGE statement. This is not supported.
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 is truncated.
962	Bad value for *parameter*	While calling an API function, an invalid value was provided to a particular parameter. Internal error. Contact TimesTen Customer Support.
963	Internal error writing checkpoint log record	**Type of Message:** Internal Error **Cause:** An error was encountered while writing the checkpoint log record. A common cause for this is low available disk space on the disk that contains your transaction log files. **Impact:** The checkpoint cannot complete. If checkpoints keep failing, database recovery takes longer and transaction log files do not get purged. **User Action:** Ensure that there is available disk space on the disk that contains your transaction log files. If the disk is low on space, make more disk space available. For more information, see "Check transaction log file use of disk space" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*. Once you have made more disk space available, retry the checkpoint. If you still receive this error, contact TimesTen Customer Support.
965	Specified join order is not applicable - valid join orders will be considered	Warning: the specified join order is not applicable and is ignored. All valid join orders are considered.

Error number	Error or warning message	Details
966	Join string too long - join order not changed	Warning: the length of the specified join order exceeds the maximum of 1,024, and is ignored. All valid join orders are considered.
967	Bad join string - join order not changed	The join order set by ttOptSetOrder built-in either has incorrect format and therefore is 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 ttOptUseIndex 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 ttOptUseIndex built-in procedure is too long.
970	Invalid cursor handle	Internal error. Contact TimesTen Customer Support.
971	Supplied buffer too small	Internal error. Contact TimesTen Customer Support.
972	Invalid data store handle	Internal error. Contact TimesTen Customer Support.
973	Invalid savepoint handle	Internal error. Contact TimesTen Customer Support.
974	Invalid format handle	Internal error. Contact TimesTen Customer Support.
975	Invalid table handle	Internal error. Contact TimesTen Customer Support.
976	Invalid index handle	Internal error. Contact TimesTen Customer Support.
977	Invalid row handle	Internal error. Contact TimesTen Customer Support.
978	Invalid command handle	Internal error. Contact TimesTen Customer Support.
979	Invalid command argument handle	Internal error. Contact TimesTen Customer Support.
980	Input buffer not properly aligned	Internal error. Contact TimesTen Customer Support.
981	Invalid cursor type (R/W)	Internal error. Contact TimesTen Customer Support.
982	String exceeds column width for column *column_name*	**Type of Message:** Error **Cause:** You attempted to insert a string that exceeds the column width of the specified column. **Impact:** TimesTen cannot perform the operation. **User Action:** Consider dropping and re-creating the table with the appropriate column width for the specified column or shortening the length of the string to insert.

Error number	Error or warning message	Details
983	Invalid index or table name *table* - 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 Customer Support.
991	Quota exceeds maximum row count for table	Internal error. Contact TimesTen Customer Support.
992	Number of table pages in use exceeds quota	Internal error. Contact TimesTen Customer Support.
993	Number of index pages in use exceeds quota	Internal error. Contact TimesTen Customer Support.
994	Data store connection terminated. Please reconnect	**Type of Message:** Error **Cause:** An unexpected error or abrupt disconnect (that is, control-C) caused the connection to be terminated. **Impact:** The database connection is terminated. **User Action:** 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, contact TimesTen Customer Support.
995	Cannot destroy data store shared-memory segment, error *os_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 database files is too long. The maximum allowed is 256 characters.
998	Connections cannot be used across fork().	TimesTen does not allow a child process to use a connection opened by its parent. Any attempt from a child process using fork() to use a connection opened by the parent process returns this error.

Errors 1000 - 1999

Error number	Error or warning message	Details
1000	Cannot set primary key columns to different values	**Type of Message:** Error
		Cause: You attempted to change the value of a primary key column. TimesTen does not support changing the values of primary key columns.
		Impact: TimesTen cannot change the value of the primary key column.
		User Action: Specify a valid SQL UPDATE statement and retry the operation. For more information about the UPDATE SQL statement, see "UPDATE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1001	Syntax error in SQL statement *statement*	**Type of Message:** Error
		Cause: The parser detected a syntax error in the specified SQL statement.
		Impact: TimesTen cannot perform the SQL operation.
		User Action: Correct the SQL syntax and retry the operation. For more information about SQL syntax, see "SQL syntax" in the *Oracle TimesTen In-Memory Database SQL Reference*. If your SQL syntax is correct, check if you are using a TimesTen SQL reserved word. If you are using a TimesTen SQL reserved word, add quotes around the reserved word or use an alternate identifier. For more information, see "Reserved Words" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1002	Identifier *identifier_name* in SQL statement exceeds maximum length (*length*)	**Type of Message:** Error
		Cause: The length of the specified identifier of the SQL statement exceeds the maximum allowed length.
		Impact: TimesTen cannot perform the SQL operation.
		User Action: Set the identifier to a value that is greater than zero and does not exceed the maximum allowed length. Then, retry the operation.
1004	Identifier in SQL statement is zero-length	**Type of Message:** Error
		Cause: You specified a SQL statement that is missing an identifier such as a table name, correlation schema name, host name, etc.
		Impact: TimesTen cannot perform the SQL operation.
		User Action: Ensure that your SQL statement contains valid identifiers. Then, retry the operation.

Error number	Error or warning message	Details
1005	Identifier in SQL statement is all spaces	**Type of Message:** Error **Cause:** You specified a table name or identifier that is all spaces. **Impact:** TimesTen cannot perform the SQL operation. **User Action:** Specify a valid table name or identifier. Then, retry the operation.
1006	Identifier *statement* contains illegal characters	**Type of Message:** Error **Cause:** The specified identifier contains illegal characters. Identifiers can contain only characters from the ASCII character set. TimesTen does not support other characters, such as native language characters, in identifiers. **Impact:** TimesTen cannot perform the operation. **User Action:** Correct the identifier using only characters from the ASCII character set. Then, retry the operation.
1007	Illegal parameter marker name	**Type of Message:** Error **Cause:** You attempted to use a parameter marker name that is reserved for system use. **Impact:** TimesTen cannot perform the operation. **User Action:** Use a valid parameter marker name. If you are using a TimesTen SQL reserved word, add quotes around the reserved word or use an alternate identifier. For more information, see "Reserved Words" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1008	PL/SQL object names cannot contain lower-case letters or trailing spaces in the TimesTen environment	**Type of Message:** Error **Cause:** The PL/SQL program unit name contains lower-case letters or trailing spaces. **Impact:** TimesTen cannot create the PL/SQL program unit. **User Action:** Specify a valid name for the PL/SQL program unit. Then, retry the operation. For more information, see "Creating and using procedures and functions" in the *Oracle TimesTen In-Memory Database PL/SQL Developer's Guide*.
1009	Pre-allocated log block found at location *log_file_number.offset_in_file* -- details: *details*	**Type of Message:** Error **Cause:** TimesTen found a preallocated log block at the specified location. A common cause for this is that TimesTen is reading past the logical end of a log file. **Impact:** The log reading application failed. It is possible that your database is invalidated, but it is unlikely. **User Action:** Contact TimesTen Customer Support.

Error number	Error or warning message	Details
1017	Column number in ORDER BY clause must be greater than zero	**Type of Message:** Error
		Cause: You attempted to reference a column number in an ORDER BY clause with a value of zero.
		Impact: TimesTen cannot perform the operation.
		User Action: Set the column number in the ORDER BY clause to a value greater than zero and retry the operation.
1022	Constant number is outside representable range	**Type of Message:** Error
		Cause: The specified constant value is out of range for the data type and cannot fit in the buffer.
		Impact: TimesTen cannot perform the operation.
		User Action: Set a constant value within the supported range and retry the operation. For information on the range of each data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1024	Referenced table *table_name* not in FROM list	**Type of Message:** Error
		Cause: The referenced table is not specified in the FROM list of the query.
		Impact: TimesTen cannot perform the operation.
		User Action: Ensure that you specify valid table names and that you specify referenced tables in the FROM list. Then, retry the operation.
1025	Number of column names in INSERT statement is not equal to number of values	**Type of Message:** Error
		Cause: You specified a number of column names in the INSERT statement that does not match the number of values of the VALUES clause.
		Impact: TimesTen cannot perform the operation.
		User Action: Specify a number of column names in the INSERT statement that matches the number of values in the VALUES clause and retry the operation.
1026	Column names must contain at least one character	**Type of Message:** Error
		Cause: You specified an invalid column name. The name of a column name cannot be blank. The name of a table column is missing.
		Impact: TimesTen cannot perform the operation.
		User Action: Use at least one character to set the column name and retry the operation. For more information, see "Column Definition" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
1027	Floating-point precision out of legal range	**Type of Message:** Error
		Cause: You specified a floating-point value that is out of the supported range.
		Impact: TimesTen cannot perform the operation.
		User Action: Set the floating-point precision to a number that is within the supported range and retry the operation. For more information on FLOAT precision, see "FLOAT and FLOAT(*n*)" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1032	Aggregate function cannot be nested	**Type of Message:** Error
		Cause: You attempted to nest an aggregate function. An aggregate function cannot be called within another aggregate function.
		Impact: TimesTen cannot perform the operation.
		User Action: Correct the nested aggregate and retry the operation. For more information about aggregate functions, see "Aggregate functions" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1033	Aggregate function cannot be specified in group by clause	**Type of Message:** Error
		Cause: You specified an aggregate function in a GROUP BY clause. An aggregate function cannot be called within a GROUP BY clause.
		Impact: TimesTen cannot perform the operation.
		User Action: Specify a correct GROUP BY clause and retry the operation. For more information about the GROUP BY clause, see "GROUP BY clause" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1061	PRIMARY KEY syntax can only be used once in statement	**Type of Message:** Error
		Cause: You specified more than one PRIMARY KEY clause. A table can have at most one PRIMARY KEY column list or constraint.
		Impact: TimesTen cannot perform the operation.
		User Action: Ensure that your SQL statement only contains one PRIMARY KEY clause. If you are attempting to create a primary key on multiple columns, ensure that all of the columns are specified within the same PRIMARY KEY clause.
		For more information, see "Primary keys, foreign keys and unique indexes" in the *Oracle TimesTen In-Memory Database Operations Guide*.

Error number	Error or warning message	Details
1102	Stale table handle	**Type of Message:** Internal Error
		Cause: The internal version number of a table does not match the version in an associated table handle.
		Impact: TimesTen needs to reacquire the table handle and cannot access the table for the current operation.
		User Action: Contact TimesTen Customer Support.
1103	Error in converting sysdate to Timestamp	**Type of Message:** Error
		Cause: You specified an Oracle database SYSDATE or TimesTen SYSDATE with an invalid TIMESTAMP or DATE value.
		Impact: TimesTen cannot convert the value to a TIMESTAMP value.
		User Action: Ensure that the Oracle database SYSDATE or TimesTen SYSDATE contains valid TIMESTAMP or DATE values. For more information on datetime data types, see "Datetime data types" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1104	Unable to obtain current date and time for SYSDATE	Unable to get the time from the system specific call.
1105	Invalid column reference.	**Type of Message:** Error
		Cause: You specified an invalid column or column list.
		Impact: TimesTen cannot perform the operation.
		User Action: Specify a valid column or column list.
1106	Start num *value* must be between minValue *value* and maxValue *value*.	**Type of Message:** Error
		Cause: You specified a CREATE SEQUENCE statement that has a START WITH clause that is not within the defined MINVALUE and MAXVALUE range.
		Impact: TimesTen cannot perform the operation.
		User Action: Ensure that the START WITH clause is within the specified MINVALUE and MAXVALUE range. Alternatively, modify the MINVALUE and MAXVALUE values so that the START WITH value is within the range.
		For more information on the CREATE SEQUENCE statement, see "CREATE SEQUENCE" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
1107	Error converting sysdate to Date	**Type of Message:** Error
		Cause: You specified an Oracle database `SYSDATE` or TimesTen `SYSDATE` with an invalid `TIMESTAMP` or `DATE` value.
		Impact: TimesTen cannot convert the value to a `DATE` value.
		User Action: Ensure that the Oracle database `SYSDATE` or TimesTen `SYSDATE` contains valid `TIMESTAMP` or `DATE` values. For more information on datetime data types, see "Datetime data types" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1108	Error in converting Oracle rowid to TimesTen rowid.	**Type of Message:** Error
		Cause: TimesTen encountered an invalid or improperly formatted Oracle database `ROWID` value in a SQL statement.
		Impact: TimesTen cannot convert the Oracle database `ROWID` to a TimesTen `ROWID` value.
		User Action: Specify a valid Oracle database `ROWID` value.
1109	Error converting char to ROWID	**Type of Message:** Error
		Cause: TimesTen encountered an invalid or improperly formatted `CHAR` value in a SQL statement.
		Impact: TimesTen cannot convert the `CHAR` value to a `ROWID` value.
		User Action: Specify a valid `CHAR` value. For more information on the `CHAR` data type, see "CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
1110	FOR UPDATE with aggregate function is deprecated	**Type of Message:** Warning
		Cause: You specified a `FOR UPDATE` clause while selecting an aggregate function. The `FOR UPDATE` clause maintains a lock on an element (usually a row) until the end of the current transaction. Aggregate functions perform a specific operation over all rows in a group, causing the `FOR UPDATE` clause to not know which row to lock. Therefore, this operation is not recommended.
		Impact: None.
		User Action: Consider rewriting your SQL query.
		For more information on the `FOR UPDATE` clause and aggregate functions, see "SELECT" and "Aggregate functions" respectively in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
1111	Error in converting rowid to char string	**Type of Message:** Error **Cause:** Your application provided a buffer that is too small to store a `ROWID` string. **Impact:** TimesTen cannot convert the `ROWID` value to a `CHAR` string. **User Action:** Provide a buffer that can hold an 18 byte string.
1112	Error in converting char string to rowid	**Type of Message:** Error **Cause:** You specified an invalid `CHAR` string or your application provided a buffer that is too small to store a `ROWID` string. **Impact:** TimesTen cannot convert the `CHAR` string to a `ROWID` value. **User Action:** Specify a valid `CHAR` string and provide a buffer that can hold an 18 byte string.
1119	Arguments/bind variables not allowed for data definition operations	**Type of Message:** Error **Cause:** You specified a binding variable or argument in a DDL statement. **Impact:** TimesTen cannot perform the operation. Binding variables or arguments are not allowed for any DDL statements, such as `CREATE VIEW`, `CREATE TABLE`. **User Action:** Consider using a `CREATE TABLE` statement with an `INSERT INTO ... SelectQuery` statement instead of a `CREATE TABLE ... AS SelectQuery ... :BindingVariable` statement. For more information on the `CREATE TABLE` statement, see "CREATE TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on the `INSERT...SELECT` statement, see "INSERT...SELECT" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on `CREATE VIEW`, see "CREATE VIEW" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
1120	SQL command does not exist	**Type of Message:** Error
		Cause: You specified a SQL unique identifier (*sqlCmdID*) that cannot be found in the SQL command query cache.
		Impact: TimesTen cannot perform the operation.
		User Action: Ensure that you specify a correct sqlCmdID value when you call a TimesTen built-in procedure that expects a sqlCmdID argument. Call the ttSQLCmdCacheInfo built-in procedure to view the TimesTen SQL command cache and the sqlCmdID of recent SQL statements.
		For more information on the ttSQLCmdCacheInfo built-in procedure, see "ttSQLCmdCacheInfo" in the *Oracle TimesTen In-Memory Database Reference*. For more information on TimesTen built-in procedures, see "Built-In Procedures" in the *Oracle TimesTen In-Memory Database Reference*.
1121	Parser Stack Overflow in SQL statement *sql_statement*	**Type of Message:** Error
		Cause: The TimesTen parser exhausted its stack while parsing the SQL statement. This is usually due to too many nested or repeating elements in the SQL statement.
		Impact: TimesTen cannot perform the SQL operation.
		User Action: Contact TimesTen Customer Support.
1200	Invalid transaction ID was input	**Type of Message:** Error
		Cause: You specified an incorrect transaction ID (*xactID*) for the ttXactIdRollback utility API.
		Impact: TimesTen cannot roll back the transaction.
		User Action: Ensure that when you call the ttXactIdRollback utility API you specify a correct *xactID* argument. For more information on the ttXactIdRollback utility API, see "ttXactIdRollback" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
1203	This transaction needs rollback since rollback was forced	This transaction has been rolled back by another connection. You must complete it and clear its state by issuing a rollback from your connection.
1740	Missing double quote in indentifier *identifier_name*	You must delimit an identifier name with double quotes. Add the double quote and try the operation again.
1742	Comment not terminated properly *message*	Comments must be terminated with the character specified in the message. Add the specified character and try the operation again.

Error number	Error or warning message	Details
1756	Quoted string not properly terminated *message*	The quoted string must be terminated with the character specified in the message. Add the specified character and try the operation again.
1801	Cannot create index on expression with datatype LOB	**Type of Message:** Error **Cause:** You attempted to create an index on a LOB column. **Impact:** TimesTen cannot perform the operation. **User Action:** Change the column data type or do not create the index on the LOB column.
1802	Column of datatype LOB cannot be unique or a primary key	**Type of Message:** Error **Cause:** You attempted to create a PRIMARY KEY or UNIQUE constraint on a column of data type LOB. **Impact:** TimesTen cannot perform the operation. **User Action:** Change the column data type or remove the constraint. Then retry the operation.
1803	Specified trim length is greater than current LOB values's length	The input length for which to trim the LOB value to is greater than the current length of the LOB value. You may not need to trim the LOB value because it is already smaller than the specified trim length. If trimming the LOB value is required, use a smaller trim length.
1804	Invalid character set form	An invalid character set form was passed into an OCI LOB function. For example, SQLCS_CHAR could have been specified for a CLOB or SQLCS_IMPLICIT could have been specified for a NCLOB. Specify a valid character set form.
1806	Invalid LOB locator specified	The LOB locator in the LOB API call is either not properly allocated or is not initialized. Initialize the LOB locator.
1807	LOB already opened in the same transaction	You attempted to open a LOB that is already opened in the transaction. Close the LOB before attempting to re-open it.
1808	Cannot update a LOB opened in read-only mode	You attempted to write to or update a LOB opened in read-only mode. Close the LOB and re-open it in read-write mode before attempting to write to or update the LOB.
1809	LOB type mismatch	When copying or appending LOB locators, both source and destination LOB locators should be of the same type. Pass the same type of LOB locators for copying or appending.

Error number	Error or warning message	Details
1812	Operation would exceed maximum size allowed *number_bytes* bytes for a *datatype* value	You attempted an operation that would result in writing too much data to the LOB value. Maximum size for the CLOB and the NCLOB data types is 4 MB and maximum size for the BLOB data type is 16 MB. Either start writing at a smaller LOB offset or write less data to the LOB value.
1813	Less data provided for writing than indicated	When issuing the OCILobWrite call, ensure that the length of the data buffer is large enough to accommodate the data to be written.
1814	Source offset is beyond the end of the source LOB	The source offset for the LOB copy or convert operation is beyond the end of the source LOB. Check the length of the LOB and then adjust the source offset.
1818	Warning: Open LOBs exist at transaction commit time	**Type of Message:** Warning **Cause:** You attempted to commit a transaction with open LOBs. **Impact:** TimesTen closes the LOBs and commits the transaction. **User Action:** Make sure your application closes open LOBs before a commit. For more information on closing LOBs, see "CLOSE procedures" in the *Oracle TimesTen In-Memory Database PL/SQL Packages Reference*.
1819	Inconsistent datatypes: expected *datatype* got *datatype*	You attempted an operation (such as an INSERT) that was expecting a data type (such as a CLOB) and you provided an invalid data type (such as a BLOB). Check the supported data types and conversions for the operation.
1820	Cannot create materialized view that includes LOB columns	You attempted to create a materialized view on a table with a column of type CLOB, NCLOB, or BLOB. Recreate the materialized view without including the LOB column.
1821	Offset or offset+amount does not land on character boundary	You provided an offset that would cause the operation to override the character boundary. This error occurs with NCLOB data types stored in a single byte or multibyte database or CLOB data types stored in a multibyte database.
1822	Cannot perform *operation* operation on an unopened file or LOB	**Type of Message:** Error **Cause:** The file or LOB is not open for the required operation to be performed. **Impact:** The indicated operation cannot be performed. **User Action:** Precede the current operation with a successful open operation on the file or LOB.

Error number	Error or warning message	Details
1824	Row containing the LOB value is not locked	The row containing the LOB value must be locked before updating the LOB value.
		Lock the row containing the LOB value before updating the LOB value.
1825	CLOB or NCLOB in multibyte character set not supported	A CLOB or NCLOB in a fixed-width or varying-width multibyte character set was passed to a SQL character function which does not support multibyte LOB data.
1826	Illegal parameter value in OCI LOB function	You specified an invalid parameter value in the OCI LOB function.
		Check each parameter in the OCI LOB function call to ensure that they are correct.
1829	CLOBs are not supported when database character set is TIMESTEN8	Your database character set is TIMESTEN8. CLOB and NCLOB functionality is not supported in this character set.
1830	BLOB/CLOBs are not supported in the SELECT lists of set operators such as UNION, INTERSECT, and MINUS	You attempted to specify a LOB data type in the SELECT list of a set operator such as UNION, INTERSECT, or MINUS.
		Do not use the LOB data type with these set operators.
1851	Operation on a passthrough LOB is not supported	Operations such as ConvertToClob and ConvertToBlob are not supported.

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 is 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	**Type of Message:** Error
		Cause: The specified table does not exist.
		Impact: TimesTen cannot perform any operation with the specified table name.
		User Action: Verify the table name and retry the operation.
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.

Error number	Error or warning message	Details
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 CREATE TABLE 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 INSERT 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 ttSize. You cannot pass a non materialized view to ttSize. Only tables, cache groups and materialized views are valid input.
2231	New index *index_name* would be identical to existing index *index_name*	Redundant indexes are not allowed on TimesTen tables. The new index was not created.
2232	New index *index_name* is identical to existing index *index_name*; consider dropping index *index_name*	The new index references the same column(s) as a previously existing index. You must drop one of the indexes.
2233	Key columns of new index *index_name* are a prefix of the columns of existing index *index_name*; consider dropping index *index_name*	Redundant indexes are not allowed on TimesTen tables. Some columns of the new index are referenced in an existing index. You must drop one of the indexes.
2234	Key columns of existing index *index_name* are a prefix of the columns of new index *index_name*; consider dropping index *index_name*	Redundant indexes are not allowed on TimesTen tables. Some columns of the new index are referenced in an existing index. You must drop one of the indexes.

Error number	Error or warning message	Details
2235	Table can have only one primary key	A table cannot have more than one primary key.
2236	Nullable column can not be part of a primary key	All columns that are part of a primary key must be defined as NOT NULL.
2237	Adding a primary key constraint on a replicated table is not allowed while the replication agent for data store *database_name* is running. Stop the replication agent to perform this operation.	To add a primary key to a table that is involved in replication, you must stop the replication agent.
2238	System table cannot be altered	TimesTen system tables cannot be altered by user. These tables are used to store metadata for necessary for various TimesTen operations and diagnostics. System tables are identified by the owner SYS or TTREP.
2239	New unique index *index_name* has the same key columns as existing non-unique index *index_name*; consider dropping index *index_name*.	The new index references the same column(s) as a previously existing index. You must drop one of the indexes.
2240	New non-unique index *index_name* has the same key columns as existing unique index *index_name*; consider dropping index *index_name*	The new index references the same column(s) as a previously existing index. You must drop one of the indexes.
2241	Such unique or primary key already exists in the table	A table in a TimesTen database can have no more than one unique or primary key.
2242	Invalid value for MAXVALUES in 'COMPRESS BY DICTIONARY' clause	You entered an incorrect value for MAXVALUES. Valid values are between 1 and 2^{32}-1. Respecify the COMPRESS BY DICTIONARY clause using a different value for MAXVALUES.
2244	Cannot drop compressed column *column_name1* without also dropping column *column_name2* which is in the same compression group.	You must drop all columns in a multiple column compression group. Use the ALTER TABLE statement to drop all columns in the compression group.

Error number	Error or warning message	Details
2245	Maximum values for compression group containing column *column_name* already present	**Type of Message:** Error **Cause:** The space allocated for the dictionary table for your compressed column has been exhausted. **Impact:** Inserts or updates in the base table for values that do not have a corresponding value in the dictionary table will fail. **User Action:** Investigate the maximum number of distinct values you require in your compressed column group and consider changing the MAXVALUES clause. For more information on the maximum supported number of values for a compression group, see "In-memory columnar compression of tables" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2246	Cannot change compression clause for already defined column *column_name*	You attempted to add compression to a column after the column was defined. Consider respecifying the ALTER TABLE statement without using the already defined column in the compression clause. Or consider dropping the column.
2247	Total table size calculation overflowed unsigned 32-bit integer; table too large to exist in a 32-bit TimesTen installation	Indicates that the size projection for the specified table overflowed an unsigned 32-bit integer. This table cannot exist on a 32-bit TimesTen installation, but may be able to exist on a 64-bit TimesTen installation.
2248	Total table size calculation overflowed unsigned 64-bit integer; table too large to exist in a 64-bit TimesTen installation	Indicates that the size projection for the specified table overflowed an unsigned 64-bit integer.
2249	Duplicate column name found in update set list	A column was specified more than once in the SET column list of an UPDATE statement.
2250	New column name *column_name* duplicates existing column name	When altering a table, use a unique column name.
2251	Compressed column group exceeds maximum allowable number of rows with equal value	**Type of Message:** Error **Cause:** The limit on occurrences of a value for a compressed column (group) has been exceeded. For more information on the limit of a value for a compressed column, see "In-memory columnar compression of tables" in the *Oracle TimesTen In-Memory Database SQL Reference*. **Impact:** Inserts into the base table that have this column value will fail. **User Action:** If the number of occurrences of a column group value is expected to exceed the limit, then you cannot use compression for that column group.

Error number	Error or warning message	Details
2286	Attempt to define constraint on column that does not exist	Attempting to create a `PRIMARY KEY` or `UNIQUE` constraint on a column that does not exist.
2294	UNIQUE/PRIMARY KEY column must specify NOT NULL	`Columns` referenced in a `PRIMARY KEY` or `UNIQUE` constraint cannot be nullable.
2295	Duplicate columns in primary key specification	The column list specified in the `PRIMARY KEY` or a `UNIQUE HASH` clause of a `CREATE TABLE` 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 `SELECT` statement.
2400	Number of columns *columns_num* exceeds the maximum *max_num*	Attempting to create a table with more columns than the maximum limit of 1000.
2401	Number of columns in compression group (*num_columns*) exceeds the maximum (*max_num_columns*)	**Type of Message:** Error **Cause:** You specified too many columns for a compression group in the `COMPRESS` clause of a `CREATE TABLE` or `ALTER TABLE` statement. **Impact:** The `CREATE TABLE` or `ALTER TABLE` statement failed. TimesTen did not create or alter a table. **User Action:** Reduce the number of columns in each compression column group to be less than the maximum allowed per compression group. For more information on columnar compression groups, see "In-memory columnar compression of tables" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on `CREATE TABLE`, see "CREATE TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on `ALTER TABLE`, see "ALTER TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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 *columns_num* exceeds the maximum *max_num*	Attempting to create an index with more columns than the allowed maximum of 16.
2407	Length of column *column_name* (*length*) exceeds maximum (*max_length*)	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* (*length*) below minimum (*min_length*)	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.

Error number	Error or warning message	Details
2417	Cannot add not null column *column_name* unless it has a default value specified	**Type of Message:** Error **Cause:** If you use the ALTER TABLE statement to add a NOT NULL column, you must specify a default value. **Impact:** You cannot use the ALTER TABLE statement to add a NOT NULL column without specifying a default value. **User Action:** When you use the ALTER TABLE ADD statement to add a NOT NULL column, ensure that you specify a default value for the NOT NULL column. For more information on ALTER TABLE, see "ALTER TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2418	Cannot add not null column *column_name* to replicated table *table_owner*.*table_name*	**Type of Message:** Error **Cause:** You attempted to use the ALTER TABLE statement to add a NOT NULL column to a table that is part of a replication scheme. **Impact:** You cannot use the ALTER TABLE statement to add a NOT NULL column to a table that is replicated. **User Action:** 1. Drop the table from the replication scheme. For more information, see "Dropping a table or sequence from a classic replication scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*. 2. Add the NOT NULL column to the table with ALTER TABLE. For more information see "ALTER TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*. 3. Add the table back into the replication scheme. For more information, see "Adding a table or sequence to an existing classic replication scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
2419	All columns in a primary key constraint must be in the initial partition; column *column_name* was added by ALTER TABLE	**Type of Message:** Error **Cause:** When you use the ALTER TABLE statement to add a column, the newly added column is located in a secondary partition. You cannot use the ALTER TABLE statement to add a primary key constraint on a column that is in the secondary partition. **Impact:** TimesTen did not create a primary key on the specified column because it is in a secondary partition. **User Action:** Use ttmigrate -r -relaxedUpgrade to condense the secondary partition into a single partition. Once you condense the partitions, you can then ALTER the table and add a primary key constraint on the column. For more information on partitions and using ALTER TABLE, see "ALTER TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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 INSERT 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 SELECT 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 is being truncated.
2436	Decimal divided by zero	Attempting to divide a decimal value by zero.

Error number	Error or warning message	Details
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. For more information on the maximum scale and precision of decimal values, see "NUMBER" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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.
2599	Overflow: Value too big for TimestampDiff's return type	The return type for the function TIMESTAMPDIFF is TT_BIGINT. This error occurs if the difference in the values between two timestamps results in a value that is too big or too small to fit into TT_BIGINT for the specified interval. An example is when the difference in the two timestamps is large and the specified interval is small (seconds or nanoseconds). Respecify the interval making sure to specify a value that is appropriate for the TT_BIGINT return type.
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 *Oracle TimesTen In-Memory Database SQL Reference*.
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 *Oracle TimesTen In-Memory Database SQL Reference*.
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 *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
2610	Operand data type *data_type* invalid for operator *operator* in expr (*expression*)	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	Errorconverting date to character string	A DATE value of a TO_DATE function has an incorrect format. For more information, see "DATE" in the for the correct format of *Oracle TimesTen In-Memory Database SQL Reference*.
2612	Error converting time to character string	A TIME value of a TO_DATE function has an incorrect format. For more information, see "TIME" in the for the correct format of *Oracle TimesTen In-Memory Database SQL Reference*.
2613	Error converting timestamp to character string	A TIMESTAMP value of a TO_DATE function has an incorrect format. For more information, see "TIMESTAMP" in the for the correct format of *Oracle TimesTen In-Memory Database SQL Reference*.
2614	Value outside of range supported by integral type	A data type conversion caused an overflow. Refer to "Data Types" in *Oracle TimesTen In-Memory Database SQL Reference* 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	**Type of Message:** Error **Cause:** The data type conversion failed. **Impact:** You cannot convert the ORA_DATE data type to a TT_TIMESTAMP data type. **User Action:** Ensure that the ORA_DATE data type you are attempting to convert is within the ranges supported by the TT_TIMESTAMP data type. For more information on ranges supported by the TT_TIMESTAMP data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2617	Error converting Oracle date to Oracle timestamp	**Type of Message:** Error **Cause:** The data type conversion failed. **Impact:** You cannot convert the ORA_DATE data type to a ORA_TIMESTAMP data type. **User Action:** Ensure that the ORA_DATE data type you are attempting to convert is within the ranges supported by the ORA_TIMESTAMP data type. For more information on ranges supported by the ORA_TIMESTAMP data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
2618	Error converting Oracle timestamp to TT_TIMESTAMP	**Type of Message:** Error **Cause:** The data type conversion failed. **Impact:** You cannot convert the ORA_TIMESTAMP data type to a TT_TIMESTAMP data type. **User Action:** Ensure that the ORA_TIMESTAMP data type you are attempting to convert is within the ranges supported by the TT_TIMESTAMP data type. For more information on ranges supported by the TT_TIMESTAMP data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2619	Error converting Oracle timestamp to Oracle date	**Type of Message:** Error **Cause:** The data type conversion failed. **Impact:** You cannot convert the ORA_TIMESTAMP data type to a ORA_DATE data type. **User Action:** Ensure that the ORA_TIMESTAMP data type you are attempting to convert is within the ranges supported by the ORA_DATE data type. For more information on ranges supported by the ORA_DATE data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2620	Error converting TT_TIMESTAMP to Oracle date	**Type of Message:** Error **Cause:** The data type conversion failed. **Impact:** You cannot convert the TT_TIMESTAMP data type to a ORA_DATE data type. **User Action:** Ensure that the TT_TIMESTAMP data type you are attempting to convert is within the ranges supported by the ORA_DATE data type. For more information on ranges supported by the ORA_DATE data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2621	Error converting TT_TIMESTAMP to Oracle timestamp	**Type of Message:** Error **Cause:** The data type conversion failed. **Impact:** You cannot convert the TT_TIMESTAMP data type to a ORA_TIMESTAMP data type. **User Action:** Ensure that the ORA_TIMESTAMP data type you are attempting to convert is within the ranges supported by the ORA_TIMESTAMP data type. For more information on ranges supported by the ORA_TIMESTAMP data type, see "Type specifications" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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.

Error number	Error or warning message	Details
2623	Invalid number	The value is invalid for the data type NUMBER. For a description of valid values for this data type, refer to "Data Types" in *Oracle TimesTen In-Memory Database SQL Reference*.
2705	Column *column_name* in *sql_statement* is not in group by list	All simple columns (not aggregate or expressions) referenced in the SELECT 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) of table *table*	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 UPDATE 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 are 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 greater than zero and less than *max_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 on the primary key	You must set a hash value on the table to include the SET PAGES clause in an ALTER TABLE statement.

Error number	Error or warning message	Details
2784	Column *column_name* has no default value defined	Default value clause was used in an INSERT or an UPDATE statement with a non-nullable column where no default value had been defined.
2785	Column *column_name* has no unique constraint	ALTER TABLE to drop UNIQUE constraint was executed on a column with no UNIQUE constraint.
2786	Column *column_name* already has unique constraint	ALTER TABLE to add a UNIQUE constraint on a column which already has a UNIQUE constraint.
2787	DateTime arithmetic error. *info*	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.
2793	A selected rowid or column reference is not found in the current scope	You cannot select a ROWID from a view.
2794	Argument *argument_name* is out of range	The specified *n* 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 supported with temporary tables	ON COMMIT option was specified with a permanent table.
2797	First two arguments of INSTR operation cannot be both parameters with undefined type; use CAST operator to define data type for parameters	Both expressions of an INSTR are arguments with no defined type.

Error number	Error or warning message	Details
2798	First argument of SUBSTR operation cannot be parameter with undefined type; 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	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: CREATE INDEX i1 ON t1 (NLSSORT(c1, 'NLS_SORT=french'), NLSSORT(c2, 'NLS_SORT=german')); Use one of the multi-lingual sorts instead or create separate indexes for each NLS_SORT value if needed.
2804	NLS parameter for linguistic index must be a constant string	The NLS_SORT parameter to the NLSSORT function in a linguistic index definition must be a constant, as in: CREATE INDEX i1 ON t1 (NLSSORT(c1, 'NLS_SORT=french')); Ensure that you specify a valid NLS_SORT language.
2806	Invalid NLS parameter for NLSSORT function *sort_value*	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* For example: CREATE INDEX i1 ON t1(NLSSORT(c1, 'NLS_SORT=bogus')); 2806: Invalid NLS parameter for NLSSORT function 'NLS_SORT=bogus' Ensure that you specify a valid NLS_SORT language.
2809	Invalid interval	The string specified in interval literal, thus INTERVAL '*string*' is of an illegal format.
2811	Not a group by expression	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.
2812	Error converting from character string *string* to Oracle date	Could not convert the specified CHAR string to an Oracle database DATE.
2813	Error converting from character string *string* to Oracle timestamp	Could not convert the specified CHAR string to an Oracle database TIMESTAMP. Check the string type and ensure that the result type does not result in an overflow or underflow.

Error number	Error or warning message	Details
2814	Trim character value should be a single character	You specified more than one trim characters. Try the operation again with only one character specified for the TRIM function.
2815	Invalid number of arguments for function *function_name*	Too many arguments were specified for the function indicated. Try the operation again with fewer function arguments.
2816	Given or computed year *year* is out of range	The year specified is out of range.
2817	Invalid data type *type* for argument *argument_name* for function *function_name*	An invalid data type was specified for the indicated argument and function. For more information about the valid syntax for this function, see "Functions" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2818	Unknown function *function_name*. If this is a PLSQL function, note such functions are not yet supported in SQL statements.	The specified function is not supported in TimesTen. For more information about supported functions, see "SQL functions" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
2819	Invalid value '*value*' for argument *number* of procedure *procedure_name*. The valid values are *values*.	You have passed an invalid value for a parameter in the position indicated in when calling a built-in procedure. The position of the invalid parameter, the invalid value and a list of valid values are displayed. Call the built-in procedure passing a valid value for the parameter.
2820	Invalid USERENV parameter	The user supplied an invalid option to the function SYS_CONTEXT. For more information, see "SYS_CONTEXT" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2821	*DateFormatModel* is not a valid date format model for date function	You specified an invalid date format model for you date function. Check the date format model and reexecute your query.
2822	Index type was changed	The primary key index type was changed while replication was using the index. TimesTen will attempt to retry using the new index.
2823	Expression ('*expression*') in value list is not supported	**Type of Message:** Error **Cause:** You specified a column reference in an IN value list. **Impact:** TimesTen cannot execute the SQL statement. **User Action:** Rewrite the IN value clause with an OR condition. Alternatively, remove the column reference from the SQL statement and retry the operation.For more information, see "ANY / IN predicate (value list)" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2860	Invalid zero-length parameter value	The application provided a parameter of the incorrect length.
2861	Incorrect parameter value length	The application provided a parameter of the incorrect length.

Error number	Error or warning message	Details
2862	Parameter length exceeds maximum	The application provided a parameter of the is greater than the maximum allowed length. Provide a parameter with a shorter length and try your operation again.
2863	Char parameter length exceeds maximum length	The application provided a CHAR parameter value that exceeds the maximum parameter length. Provide a CHAR parameter with a shorter length and try your operation again.
2864	Output parameter value truncated	The value of an output parameter is too large for the buffer provided by the application. The value was truncated. This is a warning.
2865	Output parameter buffer is too small	The value of an output parameter is too large for the buffer provided by the application. The value was truncated. This is a warning.
2866	Parameter value too large for 2-byte included-length	The length of an output parameter is larger than the maximum value that can be expressed with a 2-byte included length.
2867	Length of number value exceeds maximum	The length of a NUMBER parameter value exceeds the maximum length of a NUMBER value. Provide a NUMBER parameter with a shorter length and try your operation again.
2868	String contains an invalid hexadecimal character	Conversion of a character string to binary failed because the string contained an invalid hexadecimal character. Valid hexadecimal characters are 0-9, A-F and a-f. Provide a valid string and try your operation again.
2869	String is not a valid numeric literal	Conversion of a character string to a numeric value failed because the string does not contain a valid numeric literal value. Provide a valid numeric literal value and try your operation again.
2870	String contains an invalid date-time character	Conversion of a character string to a datetime value failed because the string contains an invalid character. Provide a valid character string and try your operation again.
2871	Truncation occurred during conversion to date-time value	Conversion to TIMESTAMP resulted in truncation of the fractional seconds because the source value specified more digits of fractional seconds than the destination value can accept.
2872	Error converting to date-time value	Conversion to a datetime value failed either because the source value was not a valid datetime value or because one or more values were out of range.
2873	Invalid statement handle	An invalid statement handle was bound to a REF CURSOR parameter.
2874	Statement handle for ref cursor is in an invalid state	A statement handle bound to a REF CURSOR was in an invalid state. A statement handle bound to an out REF CURSOR must not have an open result set.

Error number	Error or warning message	Details
2875	Ref cursor statement handle must be from same connection as base statement handle	A statement handle bound to a REF CURSOR was allocated from a different connection handle than the base statement handle. The two statement handles must be allocated from the same connection handle.
2876	Value *number* out of range; specify 0 or 1.	The built-in procedure parameter accepts values 0 or 1. Specify a value of 0 (indicating FALSE or NO) or 1 (indicating TRUE or YES).
2877	Output parameter conversion resulted in an incomplete character	An output parameter buffer was too small, causing the output value to end with a partial multibyte character. Bind an output buffer that is large enough for the entire result value.
2878	Output parameter conversion error (code=*code*)	An internal error occurred while performing character set conversion for an output parameter.
2879	Non-positive timestamps not allowed for *function*	You specified a timestamp value with a year less than or equal to 0. TimesTen does not support negative years because timestamp arithmetic involving negative years could result in timestamps falling in year 0. TimesTen does not support year 0. Respecify the function using positive timestamp values.
2903	Illegal character *character*	A SQL statement contains a character not acceptable in SQL outside of a string constant. For more information, see "SQL Statements" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2904	Invalid element *element* in number format	An invalid element was found in the format of a TO_CHAR function. For more information about the TO_CHAR function, see "TO_CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2905	Invalid element *element* in date format	An invalid element was found in the format of a TO_CHAR or TO_DATE function. For more information about the TO_CHAR function, see "TO_CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information about the TO_DATE function, see "TO_DATE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2906	Bad number format	The format of TO_CHAR function is invalid. For more information about the TO_CHAR function, see "TO_CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2907	Bad date format	The format of TO_CHAR or TO_DATE function is invalid. For more information about the TO_CHAR function, see "TO_CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information about the TO_DATE function, see "TO_DATE" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
2908	Error converting decimal to character string	Error in converting a DECIMAL to CHAR for TO_CHAR function. For more information, see "TO_CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2909	Error converting numeric to character string	Error in converting an INTEGER or FLOAT to CHAR for TO_CHAR function. For more information, see "TO_CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2910	Float overflow for TO_CHAR function	The absolute FLOAT value of a TO_CHAR function is greater than 1e+126. For more information, see "Format model for TO_CHAR of TimesTen datetime data types" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2911	Float underflow for TO_CHAR function	The absolute FLOAT value of a TO_CHAR function is less than 1e-126. For more information, see "Format model for TO_CHAR of TimesTen datetime data types" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2912	Invalid Unicode escape *string*	TimesTen detected an improperly formed Unicode escape sequence. For more information, see "Character and unicode strings" in the *Oracle TimesTen In-Memory Database Reference*.
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 NUMTODSINTERVAL 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 ensure 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 ensure 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.

Error number	Error or warning message	Details
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	Overflow converting number to char	A NUMBER parameter to the TO_CHAR function was too large to be converted.
2926	Underflow converting number to char	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 ensure 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 ensure 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 ensure that the result type does not result in an overflow or underflow.
2930	Error converting Number to Float	Check the string type and ensure 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 an INT.

Error number	Error or warning message	Details
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	**Type of Message:** Error **Cause:** An error occurred while attempting to round or truncate a date. A common cause for this is that there is not enough free space in the target column. **Impact:** The date cannot be rounded or truncated. **User Action:** None. For more information on the ROUND (*date*) and TRUNC (*date*) functions, see "ROUND (date)" and "TRUNC (date)" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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	**Type of Message:** Warning **Cause:** The result was truncated during conversion. **Impact:** The result of your operation may be less precise than the original number value. **User Action:** If you are attempting INSERT or UPDATE operations, consider increasing the size of the target column. For more information on column sizes, see "Column overview" in the *Oracle TimesTen In-Memory Database Operations Guide*.

Error number	Error or warning message	Details
2946	Truncation occurred converting Number to Char	**Type of Message:** Warning
		Cause: The result is truncated when converting from NUMBER to CHAR, and some fractional data (i.e., numeric data to the right of the decimal point) could not be converted because the supplied CHAR column length is not big enough.
		Impact: The result of your operation may be less precise than the original number value.
		User Action: Allocate a larger CHAR buffer to accommodate the result of the conversion. Allocating a large enough CHAR buffer size will prevent truncation of the result.
		For more information on the CHAR data type, see "CHAR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2947	Buffer too small for number to char conversion	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.
2949	Error occurred during Number conversion	**Type of Message:** Error
		Cause: An error occurred while attempting to convert a numeric data type.
		Impact: The conversion operation cannot be completed.
		User Action: Ensure that your numeric input data is correct. For more information on numeric data types, see "Numeric data types" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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. Check to ensure that 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.

Error number	Error or warning message	Details
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. Check to ensure that 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.
2958	Source table *table_name* with set operators such as UNION, INTERSECT, and MINUS is not supported in merge statements	You have specified SET operator in a MERGE statement that are not supported in TimesTen.
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.
2961	Inconsistent datatypes: cannot convert *datatype_A* to *datatype_B* in expression (*expression*)	Cannot convert data type A to data type B.
2962	Inconsistent datatypes: expected *datatype_A* got *datatype_B* in expression (*expression*)	Expected data type A, but instead received the unexpected data type B.
2963	Inconsistent datatypes: (*datatype_A*, *datatype_B*) are not compatible in expression (*expression*)	Data type A is not compatible with data type B in this expression.
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.

Error number	Error or warning message	Details
2972	Invalid relational operator: all group of values in the value list must have the same number of values as the left operand	**Type of Message:** Error **Cause:** You attempted an operation where the relational operator IN is specified with more than one value in the left operand but at least one group of values in the right operand has a different number of values than the number of values in the left operand. For example: `SELECT * FROM t WHERE (a,b) IN ((1,1),(2));` In this example, the second group of values in the IN list contains one less entry than the number specified in the left operand. **Impact:** TimesTen cannot perform the operation. **User Action:** Add the missing value or values to the SQL statement and retry the operation. For more information on SQL statements, see "SQL Statements" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2973	Invalid relation operator: subquery does not project same number of columns as specified in the left operand	**Type of Message:** Error **Cause:** You attempted an operation where the relational operator ANY or IN is specified with a subquery that returns a different number of values than the specified in the left operand. For example: `SELECT * FROM t1 WHERE (a,b) IN (SELECT c FROM t2);` In this example, the group of values returned in the IN list contains one less entry than that the number specified in the left operand. **Impact:** TimesTen cannot perform the operation. **User Action:** Add the missing value or values to the SQL statement and retry the operation. For more information on SQL statements, see "SQL Statements" in the *Oracle TimesTen In-Memory Database SQL Reference*.
2974	Using rownum to restrict number of rows returned cannnot 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.
2976	Parallel value must be greater than one	Specify a parallel value that is greater than one and retry the operation.
2977	Only DAY lifetime unit is allowed with a TT_DATE column	DAY is the only unit supported for the lifetime unit of a TT_DATE column.
2978	Transparent load value must be between 0 and 2	An invalid value has been supplied for the TransparentLoad attribute. Use 0, 1 or 2.

Error number	Error or warning message	Details
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	A temporary table cannot have an aging policy	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.

Error number	Error or warning message	Details
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.
2999	Illegal format for rowid type	The second parameter of TO_CHAR is specified and the data type of the first parameter is a ROWID data type. Alternatively, ensure that if the first parameter of the TO_CHAR function is a ROWID expression, the second parameter is NULL.

Errors 3000 - 3999

Error Number	Error or warning message	Details
3000	self-referencing foreign keys are not allowed	A foreign key cannot reference any of the columns contained in the foreign key itself.
3001	Foreign key violation *error*	The INSERT, DELETE or UPDATE statement caused a foreign key constraint violation. See "SQL Statements" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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 Customer Support.

Error Number	Error or warning message	Details
3008	Scalar subquery returned more than one row	A scalar subquery may return at most one row. For more information, see "Scalar subqueries" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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.

Error Number	Error or warning message	Details
3021	LRU aging policy for a readonly cache group is allowed only if the cache group is dynamic	You have specified an LRU aging policy on a explicitly loaded cache group.
3022	REFRESH CACHE GROUP with a WHERE clause is only allowed only if the cache group is not dynamic	You cannot execute the REFRESH CACHE GROUP command with a WHERE clause for dynamic cache groups.
3023	Aging column must be in the initial partition; column *column_name* was added by ALTER TABLE	**Type of Message:** Error **Cause:** When you use the ALTER TABLE statement to add a column, the newly added column is located in a secondary partition. You cannot add a time-based aging policy on a column that is in the secondary partition. **Impact:** You cannot specify a time-based aging policy on the specified column because it is in a secondary partition. **User Action:** Use ttmigrate -r -relaxedUpgrade to condense the secondary partition into a single partition. Once you condense the partitions, you can then set a time- based aging policy on the column. For more information on partitions, see "ALTER TABLE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
3025	Missing ORDER BY expression in the window specification	You attempted to specify a window specification without including the ORDER BY clause for an analytic function. Respecify your function including the ORDER BY clause.
3026	ORDER BY is not allowed with analytic aggregation with distinct	You attempted to specify both the DISTINCT qualifier and the ORDER BY clause for your analytic aggregate function. Respecify your function omitting either the DISTINCT qualifier or the ORDER BY clause.
3027	Windowing clause is not allowed with RANK/DENSE_RANK/ROW_NUMBER analytic functions	You attempted to use the windowing clause for the RANK or DENSE_RANK or ROW_NUMBER analytic functions. Respecify the function omitting the windowing clause.
3028	Invalid analytic window argument	You did not correctly specify the start point or end point of your windowing clause in the analytic function. The start point and end point must evaluate to a positive numeric value and the start point value must be less than the end point value. Check your start point and end point specifications and redefine your analytic function using the correct windowing clause specification.
3029	Invalid use of analytic function *function_name*	You did not specify the analytic function in the SELECT list of a query. Respecify the analytic function making sure to include the function in the SELECT list of your query.
3030	Missing window specification for this function	You attempted to specify an analytic function without the windowing clause. Respecify the function with the windowing clause.

Error Number	Error or warning message	Details
3031	Nested Analytical functions are not allowed	**Type of Message:** Error **Cause:** Your SQL statement contains nested analytic functions. **Impact:** TimesTen cannot perform the SQL operation. **User Action:** Specify a SQL statement without nested analytic functions. For more information on analytic functions, see "Analytic functions" in the *Oracle TimesTen In-Memory Database SQL Reference*.
3039	The first argument of NULLIF cannot be NULL literal	You specified NULL as the first argument to the NULLIF function. Invoke your function again without specifying NULL as the first argument.
3040	GROUPING function only supported with GROUP BY	You specified a grouping function such as GROUP_ID, GROUPING, or GROUPING_ID that was not within the GROUP BY clause. Modify your query by specifying the grouping function as part of the GROUP BY clause.
3041	Number of groupings exceed the maximum (2147483648)	Your specified number of groupings in the GROUP BY clause exceeds the maximum limit of 2147483648. Reduce the number of groupings.
3050	Subquery is not allowed in the RETURNING clause	You specified a subquery in a RETURNING clause. Modify your query.
3051	Number of returning expressions (*num*) should match the number of arguments in the INTO clause (*clause_arguments*)	The number of expressions and arguments in the INTO clause do not match. You must modify your query.
3052	Rownm is not allowed in the RETURNING clause	You have specified rownum in a RETURNING clause. This is not supported. You must rewrite your query.
3053	Sequence references are not allowed in the RETURNING clause	You have specified a sequence reference in a RETURNING clause. This is not supported. You must rewrite your query.
3054	Outparameter (:*parameter*) in the INTO clause is referenced more than once in the SQL statement	The specified parameter is referenced more than once in the INTO clause. You must remove one of the references.
3055	Error in handling the output parameters in the INTO clause: (*error_message*)	There is an error when processing the output values in the specified INTO clause. The details are in the error message.
3056	Aggregate functions are not allowed in the RETURNING clause	You have specified an aggregate function in a RETURNING clause. This is not supported. You must remove the aggregate function from the clause.
3070	Cannot create a synonym with same name as object	This error appears when users create a synonym that points to an object of the same name.

Error Number	Error or warning message	Details
3071	Synonym *synonym* does not exist	This error appears when users drop a non-existing private synonym. The private synonym may have been previously dropped or may have never existed.
3072	Public synonym *synonym* does not exist	This error appears when users drop a non-existing public synonym. The public synonym may have been previously dropped or may have never existed.
3073	Public synonym cannot have a schema name	This error appears when users create a public synonym name with a schema name.
3074	Looping chain of synonyms	A synonym can be created to point to another synonym. If two or more synonyms are created to point to each other, this synonym chain can form a loop. Whenever a loop forms, this error is thrown when using any synonyms in the loop.
3076	Using synonyms in this statement is not implemented	Synonyms are not supported in certain statement types. This error is thrown when using a synonym in a statement where synonyms are not allowed.
3077	Cannot resolve synonym *string* to any existing object	This error appears when users use an synonym that points to an non-existing object.
3078	Circular view definition encountered	This error appears when users create an view that uses a synonym inside its SELECT statement, which points to the view itself.
3079	Creating synonyms in schema *string* is not allowed	This error is thrown when users create synonyms in restricted schemas, such as SYS, GRID, and TTREP.
3080	Cannot create a public synonym with the same name as TimesTen built-in procedure *procedure_name*	You attempted to create a public synonym with the same name as a TimesTen built-in procedure. Recreate your synonym with a name that is not the same name as a TimesTen built-in procedure.
3096	Object *object_name* not found	The database object does not exist.
3097	A *object* with this name (*name*) already exists	An object with this name is already in use in the database.
3098	User *username* does not exist.	The user tried to create a database object for a schema that does not exist.
3100	Outer join operator (+) not allowed in operand of OR or IN	The OUTER JOIN operator (+) was either used in a OR 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 SELECT list (for example: SELECT 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.

Error Number	Error or warning message	Details
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 `T1` and `T2`. 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	In the First or Rows Clause the number must be greater than 0	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.
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*; use DROP VIEW instead	The specified table is a view. Use the `DROP VIEW` 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 "Working with materialized views" in the *Oracle TimesTen In-Memory Database Operations Guide*.
3114	Cannot alter view tables	To alter a view, you must drop the table, using the `DROP VIEW` statement and then create a new view, using the `CREATE MATERIALIZED VIEW` statement. See "Working with materialized views" in the *Oracle TimesTen In-Memory Database Operations Guide*.
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 "Working with materialized views" in the *Oracle TimesTen In-Memory Database Operations Guide*.
3117	View SQL must be less than *number* bytes long	The view's select text is bigger than the maximum size of 400*1024 bytes.

Error Number	Error or warning message	Details
3118	View *view_name* already exists	A CREATE MATERIALIZED VIEW statement specified an existing view.
3119	More than *number* views reference table *table_name*	A CREATE MATERIALIZED VIEW statement specified a detail table that already has 100 views referencing it.
3120	View *view_name* does not exist	A DROP VIEW statement specified a non-existent view.
3121	A cache group table *table_name* cannot be referenced in a materialized view	A CREATE MATERIALIZED VIEW 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 CREATE MATERIALIZED VIEW 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.
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; use DROP VIEW instead	DROP MATERIALIZED VIEW statement was used to drop a non-materialized view. See "DROP MATERIALIZED VIEW" in the *Oracle TimesTen In-Memory Database SQL Reference*.
3132	A materialized view cannot reference a regular view	A non-materialized view was referenced in the definition of a materialized view. See "DROP VIEW" in the *Oracle TimesTen In-Memory Database SQL Reference*.
3133	Cannot truncate tables with defined materialized views: the view *view* refers to *table*	You attempted to truncate a table and the table has a materialized view defined on it. Either drop the materialized view or do not use the TRUNCATE statement. You can consider using the DELETE statement.
3134	Cannot truncate materialized view: *view_name*	You attempted to truncate a materialized view. This is not a supported operation. Do not use the TRUNCATE statement to delete rows. Consider using the DELETE statement to delete the rows from the table.

Error Number	Error or warning message	Details
3135	Cannot truncate table: *parent_table*; child table: *child_table* is not empty. Please execute truncate on child table first	You attempted to truncate a parent table and the child table was not empty. Consider truncating the child table first and then truncate the parent table.
3136	Cannot truncate temp table: *temp_table*; Please use delete	You attempted to truncate a global temporary table. This is not a supported operation. If you want to remove rows from the table, use the DELETE statement.
3137	Cannot insert into a truncated table in an uncommitted transaction	An in-progress transaction is attempting to insert rows into a table that has already been truncated. Consider committing the transaction with the truncate statement and then execute the insert operation.
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.
3143	Cannot drop Materialized View Log table *table_name* with Drop Table. Use Drop Materialized View Log On *view_log*	To drop a materialized view log table, you must use the DROP MATERIALIZED VIEW LOG SQL statement.
3144	Cannot drop table *table_name* with defined Materialized View Log. First drop materialized view log.	You must drop the materialized view log before dropping the table. Use the DROP MATERIALIZED VIEW LOG SQL statement.
3145	*view_name* is not an Asynchronous Materialized View	The name that you provided in the REFRESH MATERIALIZED VIEW statement is not an asynchronous materialized view. Verify the name and try again.

Error Number	Error or warning message	Details
3146	Column *owner.name* not found in the Materialized View Log	The CREATE MATERIALIZED VIEW with REFRESH FAST statement specifies a column that is not in the materialized view log. Drop the materialized view log, then re-create the materialized view log with all the desired columns. If there are any asynchronous materialized views that depend on this materialized view log, first drop all those materialized views, then drop the materialized view log.
3147	Key Column or rowid *owner.column_name* not found in the selectlist or it is part of an expression.	The CREATE MATERIALIZED VIEW with REFRESH FAST statement must include all the primary key columns or ROWIDs of all the detail tables. If the primary key column is an argument to a function such as UPPER, it does not satisfy this rule.
3148	No Primary Key in the detail table *table_name*. Specify ROWID option for the Materialized View Log	The CREATE MATERIALIZED VIEW LOG statement has the primary key clause (either explicitly coded or by default). However, the detail table does not have a primary key. In this case use the ROWID clause in the CREATE MATERIALIZED VIEW LOG statement.
3149	Insert/delete/update/ truncate operations not allowed in a Materialized View Log Table	You cannot perform SQL operations on a materialized view log table that change the data in the table.
3150	Refresh *name* is not accepted. System is busy. Try again	Only one refresh request can be processed at any given time. Retry the operation again.
3151	Asyncmv Thread encountered error while refreshing the view *view_name*. Check the Daemon Log	An error was encountered by the asynchronous materialized view daemon thread while refreshing the materialized view. The refresh failed. The correction to this problem depends on the error message on the daemon log. For example, if the error is due to a lock conflict, you can retry the refresh statement. If it due some other internal error, contact TimesTen Customer Support.
3152	Refresh interval of 0 is not allowed for Asynchronous Materialized View with refresh mode Complete	The refresh interval value must be a positive integer.
3153	There is no materialized view log on table *table_name*	You issued a DROP MATERIALIZED VIEW LOG statement on the indicated table. However, there is not materialized view log on that table.
3154	A materialized view log already exists on table *table_name*	You issued a CREATE MATERIALIZED VIEW LOG statement on the indicated table. However, there is already a materialized view log on that table.
3155	Cannot drop column *column_name* that is included in the corresponding materialized view log	You attempted to drop the specified column. You cannot drop a column from a detail table if the column is in the corresponding materialized view log.

Error Number	Error or warning message	Details
3156	Cannot create a materialized view on a materialized view log.	You have made an attempt to create a materialized view on a materialized view log table. This operation is not supported. The materialized view was not created.
		Check the FROM list of the CREATE MATERIALIZED VIEW statement to ensure that no materialized log views are listed, then retry the operation.
3157	Cannot drop Materialized View Log on a detail table with defined Asynchronous Materialized View. View *materialized_view* refers to the detail table.	Materialized view log was not dropped.
		First drop the dependent asynchronous materialized view. Then, drop the materialized view log.
3158	Cannot create a materialized view log on a system table	Error thrown when user executes CREATE MATERIALIZED VIEW LOG ON *system_table*. Cannot create a materialized view log on a system table. The materialized view log is not created.
3159	SELECT not allowed on invalid materialized view *string*	When a materialized view is invalid, the owner of the view does not have SELECT privileges on every detail table referenced by that view. To fix an invalid materialized view, re-grant SELECT privileges on every detail table to the view owner (or grant higher-level privileges such as SELECT ANY TABLE or ADMIN). Once the privileges are granted, drop the materialized view and then re-create it.
3160	REFRESH not allowed on invalid materialized view *string*	When a materialized view is invalid, the owner of the view does not have SELECT privileges on every detail table referenced by that view. To fix an invalid materialized view, re-grant SELECT privileges on every detail table to the view owner (or grant higher-level privileges such as SELECT ANY TABLE or ADMIN). Once the privileges are granted, drop the materialized view and then re-create it.
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 TimesTen Customer Support.

Error Number	Error or warning message	Details
3202	Illegal max value. Possible reasons: maximum/ minimum limit, or max < min	**Type of Message:** Error **Cause:** You specified a CREATE SEQUENCE statement with a value of the MAXVALUE parameter that is lower than or equal to the value specified for the MINVALUE parameter. **Impact:** TimesTen cannot create the sequence object. **User Action:** Specify a value for the MAXVALUE parameter that is greater than the value specified for the MINVALUE parameter and retry the CREATE SEQUENCE statement. For more information on the CREATE SEQUENCE statement, see "CREATE SEQUENCE" in the *Oracle TimesTen In-Memory Database SQL Reference*.
3204	Sequence *sequence_name* is not found	**Type of Message:** Error **Cause:** The specified sequence object does not exist. **Impact:** TimesTen cannot perform any operation with the specified sequence object name. **User Action:** Verify the sequence object name and retry the operation.
3205	A table or sequence with this name already exists	**Type of Message:** Error **Cause:** You specified a sequence object name or table object name that already exists. **Impact:** TimesTen cannot create a sequence object or table object with the specified identifier. **User Action:** Select a different name for the sequence object or table object and retry the operation.
3206	CURRVAL or NEXTVAL not allowed in select with distinct, aggregate function, group by or order by	When a SELECT 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 UPDATE, CREATE VIEW or SELECT statement.
3208	CURRVAL or NEXTVAL not allowed in where clause	The WHERE clause in the SELECT, UPDATE or CREATE VIEW SQL statements cannot have sequence reference. However, CURRVAL is allowed only in the SELECT 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.

Error Number	Error or warning message	Details
3211	CURRVAL may not be referenced before NEXTVAL in this session	In a single session, the application should reference NEXTVAL before 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 cannot 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 Customer Support.
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 ttOptSetColIntvlStats built-in procedure was invalid or incorrectly formatted. The *error_number* describes the specific problem. See "ttOptSetColIntvlStats" in *Oracle TimesTen In-Memory Database Reference* for a description of the correct format.
3222	Estimate statistics on *owner.table* failed due to concurrent operations; try again.	The ttOptEstimateStats built-in procedure may throw this error when there are concurrent transactions, which makes it difficult to estimate statistics. This error happens when there many rows are deleted in a concurrent transaction. The table listed is the one on which the statistics are being updated.
3230	Another session changed the enhanced write concurrency mode while this session was waiting for the mode transition to complete	**Type of Message:** Error. **Cause:** The enhanced write concurrency mode was changed by another session before the mode transition completed. **Impact:** The enhanced write concurrency mode transition started but did not complete. **User Action:** Ensure that other sessions have completed the transition of the enhanced write concurrency mode. Then, retry changing the mode of the ttDbWriteConcurrencyModeSet built-in procedure.

Error Number	Error or warning message	Details
3231	You must first call *function* before you can switch from mode *current_mode* to mode *specified_mode*	**Type of Message:** Error **Cause:** You attempted to change the enhanced write concurrency mode from *current_mode* to *specified_mode*. **Impact:** The enhanced write concurrency mode cannot be changed. **User Action:** Call the function that the error message specifies. Then, retry changing the mode of the ttDbWriteConcurrencyModeSet built-in procedure.
3232	Invalid *value_type* value: *value*	**Type of Message:** Error **Cause:** You specified an invalid parameter value. **Impact:** The parameter changes you specified cannot be completed. **User Action:** Specify valid parameter values and retry calling the built-in procedure.
3233	Failed to wait for a SQL command to complete that was not compiled in write concurrency mode *mode*	**Type of Message:** Error **Cause:** The ttDbWriteConcurrencyModeSet built-in procedure could not acquire a lock. A common cause for this is that there is a long running SQL statement. **Impact:** The enhanced write concurrency mode transition started and will continue until all SQL statements in transition are executed. The ttDbWriteConcurencyModeSet built-in procedure cannot wait because it could not acquire a lock. **User Action:** Use the ttXactAdmin utility to check if there is SQL statement blocking the lock acquisition for the ttDbWriteConcurencyModeSet built-in procedure. If there is a SQL statement blocking the lock acquisition, wait for the SQL statement to finish executing. Alternatively, consider terminating the SQL statement. For more information about using the ttXactAdmin utility, see "Using the ttXactAdmin utility" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
3234	Waiting for mode transition on active SQL commands prepared or executed in this connection would never finish	**Type of Message:** Error **Cause:** You attempted to change the enhanced write concurrency mode in a transaction with active SQL statements. **Impact:** The enhanced write concurrency mode cannot be changed. **User Action:** Commit the current transaction. Then, retry changing the mode of the ttDbWriteConcurencyModeSet built-in procedure.

Error Number	Error or warning message	Details
3235	Waiting for mode transition on SQL commands with open cursors in this connection would never finish	**Type of Message:** Error **Cause:** You attempted to change the enhanced write concurrency mode in a transaction with open cursors. **Impact:** The enhanced write concurrency mode cannot be changed. **User Action:** Close the open cursors and commit the current transaction. Then, retry changing the mode of the ttDbWriteConcurrencyModeSet built-in procedure.
3236	Waiting for SQL commands to transition cannot be done with database level locking	**Type of Message:** Error **Cause:** You attempted to change the enhanced write concurrency mode in a database with database level locking. **Impact:** The enhanced write concurrency mode cannot be changed. **User Action:** Consider disabling database level locking with the ttLockLevel built-in procedure. Then, retry changing the mode of the ttDbWriteConcurrencyModeSet built-in procedure. For more information on database level locks, see "Locking granularities" in the *Oracle TimesTen In-Memory Database Operations Guide*. Alternatively, consider setting the *wait* parameter of the ttDbWriteConcurrencyModeSet built-in procedure to 0. Then, retry changing the mode of the ttDbWriteConcurrencyModeSet built-in procedure.
3300	*type_name* is not a valid type name; instead use *type_name*	An attempt was made to use a type name that is not valid in the current type mode. Use the suggested name instead.
3301	Type mode must be set to Oracle to use this feature	Only databases that have the TypeMode attribute set to Oracle Database type (TypeMode=0; the default) can contain cache groups. The TypeMode of the database cannot be changed after creation. To use cache groups, recreate the database with Oracle database type mode.
3304	Foreign key definition is not allowed for CREATE TABLE AS SELECT	A foreign key clause cannot be specified in a CREATE TABLE AS SELECT statement.
3305	Invalid number of column names specified	You have specified too many column names. Attempt the operation again with fewer column names.
3306	No column name specified when creating table with hash index	A column name is required when creating a table with a hash index.
3307	Need to specify the datatype for the column	When creating a column in this statement, you must specify a data type for that column. Retry the operation, specifying a data type for the column.

Error Number	Error or warning message	Details
3308	May not specify column datatypes in this CREATE TABLE	The statement does not allow the specification of a data type for the column. Retry the operation, without specifying a data type for the column.
3309	No column name specified when creating table with aging	When creating a table, each column in a table must have a name.
3315	Only dynamic AWT cache group can be defined as a global cache group	The CREATE CACHE GROUP statement cannot include the GLOBAL keyword for a cache group that is not an asynchronous writethrough (AWT) cache group.
3316	Cache group definition mismatch among the members of the grid	Global cache groups on the same set of Oracle database tables cannot have different definitions among the members of the grid. Redefine one or more of the global cache groups.
3317	Cache group *cache_group* does not exist in grid member *member*	A message was sent to a grid member that specifies a non-existent cache group. It is possible that the cache group was dropped from that member.
3318	Cache group *group* is not a global AWT cache group in grid member *member*	An operation related to a global cache group encountered a local cache group. It is possible that the global cache group was dropped and replaced by a local cache group.
3319	This operation needs the database to attach to the grid first	A member must be attached to the grid before performing any DML on a global cache group table. Use the ttGridAttach built-in procedure to attach the member to the grid.
3320	Node ID table *table_name* is not found on Oracle	An Oracle database table that stores information about the node ID of all grid members has been dropped.
3321	Node ID table *table_name* has no row	The row on an Oracle database table that stores information about the node ID of all grid members has been deleted.
3322	Node information table *table_name* is not found on Oracle	An Oracle database table that stores information about the node ID of all grid members has been dropped.
3323	Cache group definition table *table_name* is not found on Oracle	Table on the Oracle database to store information about global cache groups of a grid has been dropped.
3324	Cache grid cannot be destroyed when there are attached members	Before destroying a cache grid, you must detach all members of the group. Use the ttGridDetach built-in procedure to detach the member to the grid.
3325	Cache grid cannot be destroyed when there are global cache groups or local cache groups in cache grid enabled mode	Before destroying a cache grid, you must drop all global and local cache groups. TimesTen cannot destroy a grid if there are global cache group or local cache groups when cache grid is enabled.

Error Number	Error or warning message	Details
3326	Cannot create a cache grid or change cache grid while attached or attaching to the grid	Before creating a cache grid, you must detach from the grid. Use the ttGridDetach built-in procedure to detach from the grid.
3327	Only one uncommitted create/destroy grid statement is allowed. Please commit the previous one before starting a new one.	A statement to destroy or create cache grid must be executed in its own transaction.
3328	Have to commit grid create/destroy statement before attaching	You have to commit the current transaction before you can attach the grid.
3329	Have to detach from grid before destroying a grid	Before destroying a cache grid, you must detach from the grid. Use the ttGridDetach built-in procedure to detach from the grid.
3330	Grid 'grid_name' does not exist	Cannot find the specified grid under the specified admin ID.
3331	Fail to send a message to member member_name	There may be a network problem or the member has exited and TimesTen cannot communicate with that member.
3332	Failed to open a connection member member_name from member member_name. Check if this node is still alive and detach it if it is dead and/or set its standby state to fail	There may be a network problem or the member has exited and TimesTen cannot connect with that member.
3333	Time out waiting for a response from member member_name	TimesTen could not get a response from a remote member within the specified time. Either the member has exited or there was a network problem.
3334	Specified IP address and port number combination have been used	The IP address and port number of each node in a cache grid must be unique.
3336	Cache gride name must be set for this database before performing this operation	Before a database can attach to a cache grid, it must name the cache grid to which it would like to attach.
3337	Cannot stop the cache agent when the cache grid is attached. Detach the cache grid first	A cache grid requires that the cache agent be running. Before stopping the cache agent, you must first detach the cache grid. Use the ttGridDetach built-in procedure to detach the member to the grid.
3338	The instance has been deleted and has not been propagated to Oracle. Please make sure replication agent is up.	A cache instance has been deleted and this delete is being propagated to the Oracle database. No operations are allowed on this instance.
3339	Active or standby node of an active standby pair must be in active or standby state before it can attach to a grid	Put the master of the active standby pair in the ACTIVE or STANDBY state and attempt to attach to the grid again.

Error Number	Error or warning message	Details
3340	Passthrough delete/update/insert /truncate of cache grid tables are not allowed	You cannot passthrough DELETE, UPDATE, INSERT or TRUNCATE statements to Oracle database tables that are defined in a global cache group.
3341	Cache grid can only work with active standby pair or standalone node	When using replication in a cache grid, active standby pair is the only supported configuration.
3342	Inserted key already exists on Oracle or remote node	Duplicate keys were inserted.
3343	Key was not found in current owner member *member_name*	Key was not found in the member that owns the instance. This is an internal member communication error and it is not reported to the application level.
3344	Error creating grid threads: *thread_names*	Some threads needed to support cache grid operation could not be created.
3345	Grid platform *platform_name* and node platform *platform_name* are different	Cache grid configurations must be set up on similar (homogenous) platforms.
3346	Grid release *release_number* and node release *release_number* are different	All members of a grid must run the same major release of TimesTen.
3347	Both active and standby have to attach to the grid before loading can be done	Attach both the active and standby before attempting to load data into the global cache group.
3348	Missing communication address for standby node. Need to detach and re-attach the grid with this information	If a database is part of an active standby pair scheme, both the active and standby communication addresses must be identified at attach time.
3349	Member *member_name* is not in active state to receive message destined to active node	The active state of a master of an active standby pair has changed. An old message was routed to a wrong node. The grid software retries one time. If the message still fails, you can retry the operation.
3350	Member *member_name* is not in standby state to receive message destined to standby node	The standby state of a master of an active standby pair has changed. An old message was routed to a wrong node. The grid software retries one time. If the message still files, you can retry the operation.
3351	P2PTest failure at line *line_number*, number of message sent *message_number*: *message*	Internal error used for testing communication problem.
3352	Key was not found in standby member *member_name*	A key was not found in a standby node of a cache grid member. Replication may be behind and the instance has not been replicated. Retry the operation.
3353	Key is being loaded in remote member *member_name*	The instance needed by a member is being loaded by another member of the grid. Wait and retry the operation.

Error Number	Error or warning message	Details
3354	Grid thread died before committing ownership change to Oracle	A thread died while loading data. The change is being rolled back.
3355	Member *member_name* timed out waitng for updates to be propagated to Oracle	Instance loading failed because it took too long for a change on the instance to be propagated to the Oracle database.
3356	Error loading cache instance from member *member_name*; some instance is already owned by some member	Bulk load of a global cache group can succeed only if no other members own any loaded instance.
3357	Failed to detach remote member *member_name*. Member was not attached or standby is still attached and force was not specified	Detaching a remote node member failed because this node member is not attached.
3358	Failed to detach remote member *member_name*. Member is still alive	Cannot detach a remote member that is still active. That member must detach itself.
3359	Grid receiver thread received obsolete message Id	Internal communication error. An old message was received.
3360	Grid already exists	Each cache grid must have a unique name. The name you chose is already assigned to a cache grid.
3361	Failed to check if inserted key is unique in Oracle. Reason *inserted_key*	The statement checks whether a newly inserted instance that already exists in the Oracle database fails. The failure reason is provided in the error message. The insert will fail.
3362	Node already attached to a grid	You have attempted to attach a node to a grid, but the node is already attached to a grid.
3363	Node is not attached to a grid	Cannot detach a member from the grid because it is not attached to the grid.
3364	Grid attached operation failed. *details*	A member failed to attach to the grid. The message contains the details of this error.
3365	Failed to get root table primary key for transparent load. Reason *details*	A transparent load that specifies the primary or foreign key of a child table failed to select the primary key of the root table. The reason is provided in the error message.
3366	ttGridNameSet cannot be called from the standby of an active standby pair. Call it from the active instead	You cannot call the ttGridNameSet utility from the standby of an active standby pair grid member. Call it from the active.
3369	Cannot detach from cache grid when there are *outstanding_trans_load_count* outstanding transparent load and/or unloading	A member cannot detach from a cache grid when there are a number of outstanding transparent loads or unloads.

Error Number	Error or warning message	Details
3370	Member is in grid detach or failed during last detach. If the last detach failed, please complete the detach and re-attach the member first.	Last detach failed and the member is still in detaching state. Reexecute the detach to complete it.
3371	Grid control table *table_name* on Oracle was corrupted	Some Oracle database tables containing control information for the cache grid were corrupted.
3372	Timed out waiting *seconds* seconds for change to be propagated to Oracle	A timeout occurred while waiting for a change on an instance to be propagated to the Oracle database before loading the instance to another member.
3373	Cache instance does not meet aging requirement	An instance in an old owner does not meet the aging requirement of the new owner.
3374	Member may contain stale global cache group table data. Attach to the grid to clean up the data.	Attach to the grid to clean up the data.
3375	Oracle table/procedures needed for global cache group are missing. Perform manual install to create them.	A global cache group was created without creating all Oracle database control tables due to a lack of the required privileges. Perform a manual install to create these tables.
3377	Failed to acquire grid info. Grid information on Oracle may be stale. Reason *cause*	This error occurred while calling a built-in procedure to get information about cache grids. The detailed error is included in the message.
3378	Cannot drop ownership table of global cache group. Drop the cache group instead.	Tables used to store ownership information cannot be dropped using the DROP TABLE statement. Drop the associated global cache group instead.
3380	This operation is invalid with ownership table *table*.	The SELECT statement is the only statement that is allowed on tables used to store ownership information of global cache groups.
3381	Timed out waiting *number* seconds for response from remote nodes *name* to add or remove node.	A remote member did not respond within the specified time during an attach or detach operation.
3382	Timed out waiting *number* seconds for response from remote nodes.	A remote member did not respond within the specified time during the current operation.
3383	Cache group *owner.cache_group* failed ownership checking: *error*.	Internal error while calling an internal built-in.
3384	Transparent load failed because both primary and backup ownership nodes are down.	Both primary and backup nodes that contain ownership information needed for a transparent load are still down, even after three retries.

Error Number	Error or warning message	Details
3385	Invalid char found in member name string *string*.	The argument string of the ttGridDetachList built-in procedure that specifies a list of member names to be remotely detached contains some unrecognized characters.
3387	Conflict owner information was found during load. Old configuration owner *owner*, new configuration owner *owner*.	Conflict ownership information was found while a transparent load was executed concurrently with a member attach or detach. This error is not expected to occur.
3390	Create/drop global cache group is disallowed during a grid member configuration change.	During a member attach, detach or fail over, global cache group creation and dropping are disallowed.
3391	Operation failed because cache agent for remote member *member* was restarted and information was lost	Internal communication error during ownership maintenance. The operation will automatically be retried.
3392	Operation failed because remote member *member*(*node_id*) was invalidated	A remote member was invalidated during an ownership maintenance. Retry will be attempted if the member is recovered right away. Otherwise, the command will fail.
3398	Mismatched cache group type in grid member *grid_member*	An attach failed because the current node did not define some global cache groups or mismatch global cache group definition. Define and fix the cache group definition and retry the attach.
3399	The recorded information indicates that there are or were *number* attached members of the grid but this member failed to communicate with any of them	During an attach, the attaching node cannot contact any other members even though the grid information indicates that there are some attached members. This could happen because some members exit before detaching from the grid. All these members must be detached from the grid to clear up the grid.
3400	The following members *members* are not responding. Check if they are still alive and detach them if they are dead.	**Type of Message:** Error **Cause:** The cache grid cannot communicate with the specified members. **Impact:** Operations that require communication with these members will fail. **User Action:** Check if the specified members are still operational. If they are not operational, use the ttGridDetach built-in to detach them from the grid. For more information on the ttGridDetach built-in procedure, see "ttGridDetach" in the *Oracle TimesTen In-Memory Database Reference*.
3401	P2P error: *string*	This error is issued when a problem occurs with the peer-to-peer communication layer of cache grid. The provided string provides details for the problem.
3402	Cannot drop an active standby pair when the cache grid is attached. Detach the cache grid first.	The active standby pair cannot be dropped from a member that is being attached to the grid. You must detach the member from the grid and retry the command.

Error Number	Error or warning message	Details
3403	This node was attached as part of an active standby pair and the other node of the active standby pair is still attached. Detach the other node first and retry.	A node of an active standby pair was converted to a stand-alone node and an attempt was made to attach this node to the grid. The operation failed because the previous standby of this node is still attached to the grid. Detach the standby node first and then retry the command.
3404	Cannot drop AWT cache group with unpropagated deletes	Wait until all deletes of a dynamic asynchronous writethrough cache group are propagated to the Oracle database before trying to drop the cache group. Ensure that the replication agent is up. Wait until the replication agent completes propagating before retrying the drop.
3405	Cannot do blocking checkpoint until all commited deletes of AWT cache groups have been propagated to Oracle	A non-fuzzy checkpoint cannot complete until all committed deletes of all dynamic asynchronous writethrough cache groups have been propagated to the Oracle database. Ensure that the replication agent is up. Wait until the replication agent finishes propagating all changes before retrying the checkpoint. For more information, see "Fuzzy or non-blocking checkpoints" in the *Oracle TimesTen In-Memory Database Operations Guide*.
3406	Unique constraint (*constraint*) violated at Rowid *rowid* due to unpropagated delete	Internal error. Contact TimesTen Customer Support.
3407	Cannot allocate space to store ownership information for global cache groups because temporary data region free space is below the minimum threshold of *number* bytes	Free up space within the temporary memory region before continuing.
3408	Global statement needs the database to attach to the grid first	A member must attach to the grid first before executing any global statements.
3409	Combination of global processing option and *option_name* option is not supported	Global statement optimizer hint cannot combine with passthrough hint.
3410	Grid sender queue is too full	Internal error. Grid sending queue is too full.
3411	Global select failed because temporary data region free space is below the minimum threshold of *number* bytes	Global select failed because temporary memory region free space is below the minimum threshold of the specified number of bytes.
3412	Detach is disallowed on transaction with uncommitted grid work	A transaction with uncommitted statements that involves global cache group ownership change is not allowed to execute detach command. You must commit the transaction first.

Error Number	Error or warning message	Details
3413	Internal error: conflict ownership acquisition of threads of same member.	Internal error. Contact TimesTen Customer Support.
3414	Member failed to attach as an active during the last fail-over. Please re-execute attach before performing this operation.	The last failover that turned this node into an active node has failed to complete grid failover. Execute the attach command before performing operations on any global cache group tables.
3415	Internal error: instance was found but not qualified.	Internal error. Contact TimesTen Customer Support.
3416	Member is doing failover and not in grid active state yet.	Grid failover is still in progress, so operations on global cache group tables are not allowed.
3417	Internal error: Propagation thread is executing on active node.	Internal error. Contact TimesTen Customer Support.
3418	Load/unload are disabled because there may be some unpropagated update before the last failover/restart. Please check if the standby is up and set its state to fail if it is not up.	Operations on global cache group tables are not allowed, since there may still be some un-propagated changes since last failover or restart. If the standby is not active, set its state to fail so propagation can progress.
3419	Cannot detach standby node. Either detach active node first, or stop replication agent on standby and use ttRepStateSave to set its replication state to 'FAILED' before detaching standby.	Cannot detach the standby node that is not in failed state before detaching the active node. Either detach the active node first or set the standby state to failed from the active node before detaching the standby.
3420	Cannot detach from cache grid when there are pending transaction on global cache groups.	All pending transactions on global cache group table must commit and changes must be propagated to the Oracle database before a node can detach.
3421	Grid Configuration was changed	A grid member was added or removed after a global query was compiled. Recompile the query.
3422	The instance has been updated and unloaded and the update has not been propagated to Oracle. Please make sure replication agent is up	A cache group instance has been updated and unloaded and the update has not been propagated to the Oracle database. As a result, the instance cannot be reloaded. Check to see if the replication agent is up. If not, start the replication agent.
3423	The instance has been unloaded by the same transaction and cannot be reloaded. Please commit the transaction first and retry the operation	A cache group instance has been unloaded by a transaction and the transaction has not been committed. The instance cannot be reloaded until the transaction is committed and the update is propagated to the Oracle database. Commit the transaction and ensure that the replication agent is up.

Error Number	Error or warning message	Details
3427	`Global cache group is not supported on Windows`	**Type of Message:** Error **Cause:** The global cache group feature is not supported on Windows. **Impact:** You cannot specify a global cache group on Windows. **User Action:** You cannot specify a global cache group on Windows.
3428	`Dynamic load is not allowed with multiple cache groups when dynamicloadEnable connection attribute is set to 1. Set it to 2 instead and retry the query`	When the `DynamicLoadEnable` connection attribute is set to 1, a dynamic load is not allowed if your query references multiple cache groups. Set `DynamicLoadEnable` to 2 and retry your query.
3429	`Dynamic load is not allowed with cache group table in subquery when dynamicloadEnable connection attribute is set to 1. Set it to 2 instead and retry the query`	When the `DynamicLoadEnable` connection attribute is set to 1, a dynamic load is not allowed if your query references any cache group in the subquery. Set `DynamicLoadEnable` to 2 and retry the query. Note: With `DynamicLoadEnable` set to 2, a dynamic load is not performed if your cache group is referenced in the subquery. However, a dynamic load is performed if your cache group is referenced in the main query.
3430	`Grid name can not be changed when there are global cache groups or local cache groups in cache grid enabled mode`	You attempted to change the grid name by calling the built-in procedure `ttGridNameSet` when one of the following conditions was true: 1. Your database had global cache groups. 2. Grid is enabled and your database had local AWT cache groups.

Errors 4000 - 4999

Error number	Error or warning message	Details
4053	`Internal error. error_number`	Internal error. Contact TimesTen Customer Support.
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.
4056	`Assertion failure (assertion) in file file_name at line line_number`	**Type of Message:** Error **Cause:** An internal assertion occurred at the specified location. **Impact:** Your current operation failed. **User Action:** Contact TimesTen Customer Support.

Error number	Error or warning message	Details
4501	Data store cannot checkpoint to a network file system	Database 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	Database files cannot be located on a network file system. Move the checkpoints to a local file system and retry the operation.
4600	*Error min_range and max_range*	Bad argument generic error message.
4601	*Error value 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 *database_path_name*; check agent status	**Type of Message:** Informational **Cause:** The cache agent is not running. **Impact:** TimesTen cannot autorefresh cache groups. **User Action:** Call the ttCacheStart built-in procedure to start the cache agent. For more information about the ttCacheStart built-in procedure, see "ttCacheStart" in the *Oracle TimesTen In-Memory Database Reference*.
5007	Cache agent error	There was a communication failure between the TimesTen cache agent and the client process.
5010	No OracleNetServiceName specified in DSN	An attempt was made to start a TimesTen cache agent for a DSN that does not have the OracleNetServiceName attribute specified.
5011	Oracle (OCI8) call failed	The TimesTen cache agent got an error on an Oracle database (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 user name 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 or the Oracle database. Ensure that the user name, password and Oracle database ID are correct.
5015	Mismatch in number of columns extracted and number of columns in cached table	**Type of Message:** Error **Cause:** The schema of the cached table changed on the Oracle database after the cache group was created. **Impact:** The specified cached tables cannot function correctly. **User Action:** Recreate the cache group. For more information, see "Create the cache groups" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. Then, retry the operation.

Error number	Error or warning message	Details
5016	Cache agent has too many existing connections	**Type of Message:** Warning **Cause:** The Oracle database has run out of resources to accommodate any additional connections made by the TimesTen cache agent. **Impact:** The TimesTen Cache features cannot function correctly. **User Action:** Diagnose and troubleshoot any connection leaks to the Oracle database. Also, consider configuring the Oracle database to allow additional connections. Then, retry the operation.
5019	Bad table name specification	**Type of Message:** Error **Cause:** The configuration file contains a cache table specification with an invalid table name. Review the user error log for additional error messages. **Impact:** The cache agent may have failed certain operations, such as loading a cached table. **User Action:** Review the user error log for possible fixes.
5020	Warning(s) during population of cache. See the user error log for details. *detailed_error_message*	**Type of Message:** Warning **Cause:** A warning message was generated while TimesTen was populating a cached table. Review the user error log for more information. **Impact:** TimesTen may not have completed the population of the cached table. **User Action:** Review the user error log for possible fixes.
5021	Could not get meta data from Oracle: *detailed_error_message*	**Type of Message:** Error **Cause:** The TimesTen cache administrator cannot retrieve the requested metadata from the Oracle database. **Impact:** The cache agent may have failed certain operations, such as a refresh operation. Review the user error log for more information. **User Action:** Review the user error log for possible fixes.
5022	Could not open output file for writing Oracle meta data	The Cache Administrator was not able to write the Oracle database 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 the Oracle database. 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 CREATE CACHE GROUP statement.

Error number	Error or warning message	Details
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 of cache_name 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 or each table contains several columns and the total length of these tables and columns has exceeded the communication buffer.
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 Customer Support.
5036	`Warning(s) while populating the cache. detailed_warning_messasge(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 MERGE operation.The detailed error follows this error message.
5039	`An error occurred while refreshing the cache_group_name detailed_error_message`	**Type of Message:** Error **Cause:** An error occurred while refreshing the specified cache group. A detailed error message follows this message. **Impact:** Review the error message for possible impacts. **User Action:** Review the error message for possible fixes.
5040	`Warning(s) while unloading the cache. detailed_warning_message`	**Type of Message:** Warning **Cause:** Some SQL warnings were generated while unloading the cache group. A detailed warning message follows this message. **Impact:** Review the warning message for possible impacts. **User Action:** Review the warning message for possible fixes.
5041	`An error occurred while unloading cache_group_name: detailed_error_message`	**Type of Message:** Error **Cause:** An error occurred while unloading the specified cache group. A detailed error message follows this message. **Impact:** The cache group unload operation was unsuccessful. Review the error message for possible impacts. **User Action:** Review the error message for possible fixes.

Error number	Error or warning message	Details
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 database.
5046	Commit/rollback required after Cache operation	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.
5048	Feature, *feature_name*, not supported	The feature entered is invalid or not supported.
5050	Cache group definition is too long. Current system limit on *field_name* field 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 cache_group_name parameter was provided for the ttCacheSqlGet built-in procedure call. The cache_group_name parameter cannot be NULL or empty when the install_flag 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 database connection terminated during a transaction rollback. The pending Oracle database transaction was (or will be) rolled back by the Oracle database server. The *error_number* is either an ORA-*xxxxx* message, an Oracle database error code that was returned by the Oracle database during rollback, or "no error code," which means the connection was broken before the Oracle database rollback request.
5058	The cache operation received a warning: warning_type=*type*, warning_code=*code*, warning_message: *message*	The cache agent generates this warning message. The specific warning is indicated at the end of message.

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 the Oracle database. The rollback on the Oracle database also failed. TimesTen and Oracle database data are in a transactional inconsistent state. One way to make the cache groups consistent with the Oracle database is to unload and reload all affected cache groups.
5064	The Oracle client version *version_number* is not compatible with Oracle server version *version_number*. Upgrade Oracle serve to *version_number* or higher.	The Oracle database client version is 10.2 or higher and it is not compatible with the Oracle Database server version. This error can be encountered by the application during any operation that requires a connection to the Oracle database. Fix is to use compatible Oracle database client/server versions according to documentation.
5067	Name *name* is already used by an existing *object*	The name specified is already in use. Specify a unique name for the indicated object.
5068	Argument *argument_name* ignored	A TimesTen Cache built-in procedure was called with an argument that was not needed. The argument was ignored and the built-in was called without the argument.
5069	Argument *argument_name* *error_message*	A TimesTen Cache built-in procedure was called with an invalid argument. The error message indicates the invalid argument.
5070	Error compiling PL/SQL block. Check that *user_name* has *privilege_type* on *table_name*	There was an error compiling an Oracle Database PL/SQL block because the application user does not have the correct privileges on Oracle Database. Check the privileges indicated in the message.
5071	Name *string* reused within statement. Use different names.	The cache group name is being used by another TimesTen object. Use a different name.
5073	Cache operation failed. Rollback required.	**Type of Message:** Error **Cause:** Review the error message on the error stack for possible causes. **Impact:** The transaction must be rolled back. **User Action:** Rollback the transaction. For more information on how to rollback a transaction, see "Working with transactions" in the *Oracle TimesTen In-Memory Database Operations Guide*. Then diagnose and troubleshoot the error on the error stack and retry the cache operation.

Error number	Error or warning message	Details
5074	Could not log in to Oracle database. Login Attempt: *num_attempts*, Allowed attempts: *max_attempts*.	**Type of Message:** Error **Cause:** The cache or replication agent failed to connect to the Oracle database. **Impact:** TimesTen cannot connect to the Oracle database. When the number of log in attempts reaches the number of allowed attempts, the agent will stop trying to connect to the Oracle database. **User Action:** Review the daemon log for more details about the problem. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
5101	An error occurred while generating the name of the *type* database shared library for database type: *database_type*	Oracle is the only supported back-end database for cache group operations and passthrough.
5102	Cannot load backend library *library_name* for Cache Connect. OS error message *error_details*.	The library used by TimesTen Cache could not be loaded. This can happen if: ■ The library was not installed or is named differently than the OCI. ■ The library was not found. ■ 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. ■ The Oracle library bits do not match the TimesTen bits. Some platforms use something other than LD_LIBRARY_PATH. See the "Shared library path environment variable" in the *Oracle TimesTen In-Memory Database Installation Guide* for details.
5103	The cache group operation could not unload the backend database shared library. *library_name*	The OS had some problem unloading the back-end 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 back-end library was loaded. Check the library search path to verify that it is pointing to the correct library directory.
5105	OCI initialization failed: *description*.	The OCI could not be initialized. This is a necessary component for TimesTen Cache. This usually occurs when there is not enough memory on the client system.
5106	Could not allocate *handle_name* handle	This is usually occurs when there is very little memory left on the client system.

Error number	Error or warning message	Details
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 OCI function. Details on the error are specified within the error message.
5109	Cache Connect general error: *Oracle_operation*	TimesTen Cache failed in the identified Oracle database operation. This error is usually accompanied by a more specific error message. If not, contact TimesTen Customer Support.
5110	Table does not exist in Oracle: *table_name*	The cache group table does not exist on the Oracle database.
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 the Oracle database.
5112	Cache *owner table_name* contains VARCHAR column(s). Oracle VARCHAR comparison rule is different.	This is a warning. The comparison rule for the Oracle database VARCHAR differs from the TimesTen comparison rule. This may cause a primary key constraint violation on TimesTen while loading Oracle database rows. The problem may happen when there are trailing spaces in the Oracle database data. TimesTen generates this warning whenever there is a VARCHAR column in a cache table.
5113	Cache *owner table_name* contains REAL/DOUBLE/ FLOAT column(s). Cached value may have a different precision.	This is a warning. Oracle Database 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 Database. 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 "Data type support" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* for more information.
5115	Unsupported type mapping for column *column_name*	The data type mapping rules were violated on a non-key field. See "Data type support" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* 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 CREATE CACHE GROUP statement do not work on the Oracle database.
5118	Column *column_name* has different precision/ scale in Oracle	This is a warning. Oracle Database 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 Database NUMBER type.

Error number	Error or warning message	Details
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 the Oracle database.
5120	No matching unique index with not null columns, unique key constraint with not null columns, or primary key constraint on table *table_name*, cache operations are restricted	The cache group operations are restricted to full cache group LOAD CACHE GROUP, UNLOAD CACHE GROUP and MERGE operations because TimesTen cannot find a primary key or a unique NOT NULL index on the Oracle database 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 LOAD CACHE GROUP, UNLOAD CACHE GROUP and MERGE 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 the Oracle database.
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 restricted if it has a non-standard data type mapping in one of its columns or if there is no matching primary key on the Oracle database.
5125	Caching of Timestamp column(s): fractional seconds may be truncated	The scale of the TimesTen TIMESTAMP type is always 6. Mapping of Oracle database 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 "Data type support" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* for a list of supported data type mappings.
5127	Backend connection invalid. *error_details*	An error occurred while trying to connect to the Oracle database or an invalid back-end database was specified in the connection.
5128	*handle_name* handle is invalid. The Oracle connection may have been lost. Retry your operation.	A TimesTen Cache handle has been invalidated. In most cases, this occurs when the connection to the Oracle database has been lost. Check if the Oracle database instance is up and retry the operation.
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.	A TimesTen Cache handle has been invalidated. In most cases, this occurs when the connection to the Oracle database has been lost. Check if the Oracle database instance is up and retry the operation. The prepared statement must be re-prepared.
5130	Error executing the following statement on *oracle_db*: *query*	The execution of *query* failed on the Oracle database. Examine the query and verify the Oracle database schema has not changed during TimesTen Cache operations.

Error number	Error or warning message	Details
5131	Cannot connect to backend database: OracleNetServiceName = *Oracle_service_name*, uid = *user_id*, pwd is hidden,TNS_ADMIN = *tns_admin* , ORACLE_HOME= *Oracle_home*	Common causes of connection failures are incorrect OracleNetServiceName, user id or password, TNS_ADMIN or location of the Oracle database installation. It is also possible the Oracle database user password (the ORACLEPWD) attribute is not specified. You may also find the Oracle database error number in other messages on the error stack. Check the Oracle database error message documentation for the corresponding Oracle database 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 database SQL statement used by TimesTen Cache is no longer valid.
5133	Could not re-install SIGINT signal handler	TimesTen Cache failed to re-install the SIGINT signal handler. The handler was changed by the Oracle database. Contact TimesTen Customer Support.
5134	Could not determine Oracle server version	TimesTen Cache failed to determine the version of the Oracle database server. Contact TimesTen Customer Support.
5142	Autorefresh is not allowed on cache groups with Oracle synonyms	You cannot set AUTOREFRESH for a cache group that uses Oracle database synonyms.
5144	The cache group contains a Oracle materialized view, cache operations are restricted.	You cannot create a restricted cache group on an Oracle database materialized view.
5146	*owner.name* is a public synonym which is not supported	Public synonyms are not supported in cache groups. One reason for this is because the owner and object name on the Oracle database must be the same on TimesTen. Since you cannot create an object owned by PUBLIC, this functionality is not supported in cache groups.
5150	The statement handle is in an invalid state for the operation: *operation_name*	Internal error. Contact TimesTen Customer Support.
5151	Passthrough is not supported for *error_condition*	**Type of Message:** Error **Cause:** Attempted to passthrough an unsupported SQL statement or large output parameter values from TimesTen to the Oracle database. **Impact:** Statement execution stopped. **User Action:** Use a SQL statement that is supported for passthrough. Also, ensure that the SQL statement does not contain large output parameter values. For more information about the PassThrough attribute, see "PassThrough" in the *Oracle TimesTen In-Memory Database Reference*.

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. Check the syntax.
5153	*operation* is not allowed for this type of Oracle statement	A fetch was called on a non-SELECT PASSTHROUGH 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.
5158	Oracle compilation error: *error*	The TimesTen Cache operation encountered an Oracle database compilation error. Contact TimesTen Customer Support.
5159	Index *owner*.*name* was converted to a non-unique index because table *owner*.*name* 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	Failed to prepare Oracle objects for datastore duplication: *details*	Can occur during database duplication. Some Oracle database objects are missing or are in use by another application. Additional details may be displayed.
5161	Conflicting concurrent updates to bipropagated rows	See "PROPAGATE cache table attribute" in *Oracle TimesTen Application-Tier Database Cache User's Guide*.
5162	Could not register Oracle failover callback function	A callback function to handle Oracle RAC failures was not registered. You must manually reconnect to the Oracle database after a connection failure.
5163	Oracle failover failed with event *event_ID*. Retried for *number* minutes	TimesTen was not able to reestablish a connection to the Oracle database. 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 database table. You must either remove the CASCADE DELETE foreign key on the cache table or add one on the Oracle database 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.

Error number	Error or warning message	Details
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 (TypeMode=0) in order to use any of the Cache Connect features.	Oracle database type mode is required for the database that contains the cache group.
5170	Duplicate completed successfully but the cache metadata will be updated after the cache and replication agents have been started on the destination store becuase of the reasons stated below.	Metadata stored on the Oracle database for cache groups is updated by the cache and replication agents after they are started and they are able to connect to the Oracle database. Ensure that the cache and replication agents are started on the destination database.
5171	Lookup for username *user_name* failed on Oracle.	The cache operation requires the specified user name, but not such user is found on the Oracle database.
5181	Oracle column maximum byte length is restricted to 4000 bytes for column *column_name*	You have specified a column length on the specified table that is greater than the maximum allowed length of 4000 bytes.
5182	TimesTen Cache is supported only with Oracle Database Server release 10.2 and later.	Version of the Oracle database server is not supported. The Oracle database server must be release 10.2 or later.
5183	Function *function_name* was not in the library. The function will not be called.	Discover that a function is not a part of the library during the first cache connect operation within an application or during the startup of the replication agent. No action necessary, as the function will not be called by cache connect. Check that the OCI client library version is 11.1 or later.
5184	*owner.name* cannot be cached. The Oracle synonym is owned by another user and cannot be cached by the current session user.	Tried to create a cache group on an Oracle database synonym that is owned by another user in the Oracle database. Resolve by performing one of the following: - The owner of the synonym creates the cache group. - Create another synonym to point to the other owner's synonym. The cache group then references the new synonym.

Error number	Error or warning message	Details
5185	Cache admin user *cache_admin_user_id* does not have *privilege* Oracle privileges on *schema.object*.	This is either an error or warning depending on the privilege that the cache administrator lacks and the type of cache group that is being created. The user should grant the appropriate Oracle database privileges to the cache admin user.
5186	The OCI client library in use does not contain required routines to support caching LOBs from Oracle.	The application is linked with an OCI library that was not shipped with TimesTen.
5187	Caching LOBs from Oracle requires using an OCI client library provided by the TimesTen installation, or other versions of OCI client supported by TimesTen.	The application is linked with an OCI library that was not shipped with TimesTen.
5190	Table *table* not found. *error_condition*	**Type of Message:** Warning **Cause:** The specified TimesTen table does not exist. **Impact:** The TimesTen Cache configuration parameters for the ttCacheConfig built-in procedure are set, but will not be applied until the specified TimesTen table is created. **User Action:** Ensure that the specified table exists on TimesTen.
5201	Operations for Cache Agent are not allowed for temporary data stores	Oracle database data can be cached only in a permanent TimesTen database.
5202	Environment variable ORACLE_HOME must be set to perform this operation	Set the ORACLE_HOME environment variable to point to the location of your Oracle database installation.
5203	Could not find library *library_name*	On UNIX only, the Oracle database 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 database 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 database 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.
5207	The cache admin UID cannot be changed while there are any cache groups in the datastore. Drop all cache groups 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.

Error number	Error or warning message	Details
5208	There are existing cache groups under the Cache Admin's schema on Oracle. *schema_name*	When TimesTen starts to track DDL changes on the Oracle database, there are already existing cache groups in the database. Since the corresponding Oracle database tables may have been altered before the tracking started, there may be an inconsistency between the cache schema and the Oracle database schema. Verify that the TimesTen and Oracle database schema still match.
5209	Cannot start cache agent because TNS_ADMIN not specified during install. Use ttModInstall -tns_admin to fix.	The user did not specify a value for TNS_ADMIN during the installation of TimesTen. You cannot start a cache agent without specifying the TNS_ADMIN variable.
5210	Oracle unique constraint violation *error/warning* in *OCI_function*: *Oracle_error_number*	Unique constraint violation occurred on the Oracle database in the named OCI function.
5211	Oracle out of resource *error/warning* in *OCI_function*: *Oracle_error_number*	Out of resource error occurred on the Oracle database in the named OCI function.
5212	No longer connected to Oracle *error/warning* in *OCI_function*: *Oracle_error_number*	Connection lost to the Oracle database.
5213	Bad Oracle login *error/ warning* in *OCI_function*: *Oracle_error_number*	Oracle database login error.
5214	Not connected to Oracle *error/warning* in *OCI_function*: *Oracle_error_number*	No connection to the Oracle database.
5215	Oracle resource timeout *error/warning* in *OCI_function*: *Oracle_error_number*	Oracle database resource timeout occurred on the Oracle database in the named OCI function.
5216	Oracle resource busy *error/warning* in *OCI_function*: *Oracle_error_number*	Oracle database resource busy.
5217	Oracle deadlock *error/ warning* in *OCI_function*: *Oracle_error_number*	Oracle database deadlock occurred on Oracle database during the named OCI function.
5218	Bad parameter to Oracle *error/warning* in *OCI_function*: *Oracle_error_number*	Bad parameter specified for the named OCI function.

Error number	Error or warning message	Details
5219	Temporary Oracle connection failure *error/warning* in *OCI_function*: *Oracle_error_number*	Temporary TimesTen Cache failure occurred on the Oracle database during the named OCI function.
5220	Permanent Oracle connection failure *error/warning* in *OCI_function*: *Oracle_error_number*	Permanent TimesTen Cache failure occurred on the Oracle database during the named OCI function.
5221	Oracle syntax *error/warning* in *OCI_function*: *Oracle_error_number*	Oracle database syntax error occurred on the Oracle database in the named OCI function.
5222	Oracle constraint violation *error/warning* in *OCI_function*: *Oracle_error_number*	Constraint violation occurred on the Oracle database in the named OCI function.
5223	Oracle orphan violation *error/warning* in *OCI_function*: *Oracle_error_number*	Orphan violation occurred on the Oracle database in the named OCI function.
5224	Oracle foreign key violation *error/warning* in *OCI_function*: *Oracle_error_number*	Foreign key violation occurred on the Oracle database in the named OCI function.
5225	Oracle recovery in progress *error/warning* in *OCI_function*: *Oracle_error_number*	Recovery in progress error occurred on the Oracle database in the named OCI function.
5226	Oracle data truncation *error/warning* in *OCI_function*: *Oracle_error_number*	Data truncation error occurred on the Oracle database in the named OCI function.
5227	Insufficient privileges *name* occurred while performing an Oracle operation in *function*: *error_message*.	The user has insufficient privileges. Grant the user the appropriate privileges and retry.
5228	A transient *mode* occurred while performing an operation in *function*: *error_message*.	There was a temporary error while executing the indicated function. The transaction must be rolled back. The details are in the error message. The mode is set to error.
5229	An Oracle savepoint error occurred: *error_message*	This cache operation requires TimesTen to set a savepoint on the Oracle database. The setting failed. The details are in the error message.
5230	A transient *mode* occurred while performing an Oracle operation in *function*: *error_message*.	There was a temporary loss of connection to the Oracle database server while executing the indicated function. The transaction must be rolled back. The details are in the error message. The mode is set to error.

Error number	Error or warning message	Details
5243	The operation cannot be executed if the Replication Agent is not running. 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 message.
5247	The operation cannot be executed while the cache agent for this data store is running.	Stop the cache agent.
5249	Awt Initialization Failure: *detailed_error_number*	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 the Oracle database. One of TimesTen SQL statements did not compile.
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 must 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 ttCacheUidPwdSet procedure or ttAdmin -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 ttAdmin -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 "Permanent Oracle Database errors reported by TimesTen" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
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 `ttCacheUidPwdSet` 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 *number* updates and *number* rows were affected.	The transaction was rolled back because there were update operations on rows that are not in the Oracle database tables.
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 database 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 Customer Support.
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 database 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 Customer Support.
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 Customer Support.
5264	Master data store state not active or standby. State is *state*.	You must specify the `ACTIVE` or `STANDBY` state for the database.
5265	Internal error: *error_details*	Internal error. Contact TimesTen Customer Support.
5266	Cache ddl lock request denied because of time-out\Owner info: *message*	This is a cache DDL lock timeout information. The lock owner information is specified in message.
5267	The operation failed because the data store is marked dead and *name* option is set to *value*	The autorefresh cache groups must be recovered before the operation can be performed. For more information about autorefresh cache group recovery, see "Configuring recovery method for certain cache groups" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
5268	Changing the recovery method to none has caused recovering cache groups to be marked dead for all data stores	All cache groups that were being recovered are marked dead since the recovery method has been changed to none.
5269	*owner.name* is not an incrementally autorefreshed cache group	The status can only be shown on incrementally autorefreshed cache group. The indicated table is not an incrementally autorefreshed cache group.
5275	Asynchronous writethrough metadata not found *error* in *object*: *object*	Contact TimesTen Customer Support.
5276	Asynchronous writethrough role or state change occurred *error* in *object*: *object*	Contact TimesTen Customer Support.
5277	Timeout while updating active standby metadata on Oracle *error* in *object*: *object*	Contact TimesTen Customer Support.
5278	Statement over 4000 bytes: *statement*	Statement is over accepted limit of 4000 bytes.
5279	*statement* is not allowed when transaction isolation level is set to serializable.	The CREATE, DROP and ALTER CACHE GROUP statements are not allowed with the serializable isolation level. Reset the transaction isolation level to read-committed isolation and reexecute the statement.
5280	Autorefresh state of *string.string* is *string*; autorefresh state must be *string*.	The specified cache group is in the incorrect autorefresh state for the operation you are attempting. Use the ALTER CACHE GROUP ... SET AUTOREFRESH STATE command to set the autorefresh state as indicated.
5281	Autorefresh of specified cache group is already in progress.	A new autorefresh operation cannot be initiated while a current autorefresh operation is in progress. Wait for the current autorefresh operation to complete and try again.
5282	ttCacheAutorefresh cannot be called from the standby of an A/S pair. Call it from the active instead.	The ttCacheAutorefresh built-in procedure cannot be called from the standby node of an active/standby pair. Call it from the active node instead.
5283	Autorefresh did not complete within 24 hours	When called with SYNCHRONOUS >1, the ttCacheAutorefresh built-in procedure waits for the autorefresh operation to complete. In this case, the autorefresh operation did not complete within 24 hours. Check the daemon log for issues.
5284	Error launching autorefresh, see daemon log	The ttCacheAutorefresh built-in procedure encountered an unexpected error while initiating the autorefresh operation. Check the daemon log for issues.

Error number	Error or warning message	Details
5285	Autorefresh failed, see daemon log	The autorefresh operation initiated by the `ttCacheAutorefresh` built-in procedure failed. See the daemon log for details.
5286	Autorefesh activity has occurred so rapidly that the history of the requested autorefresh has been overwritten by subsequent autorefreshes before it could be retrieved. There is not necessarily any problem. Check the daemon log for the status of the requested refresh.	The TimesTen cache agent keeps a history of the 10 most recent autorefresh operations. The autorefresh operation that you initiated with the `ttCacheAutorefresh` built-in has completed. Before its status could be read from the autorefresh history, it was displaced by another autorefresh operation that occurred at an unusually high rate. This is not necessarily a problem. The autorefresh operation you initiated may have completed successfully. Check the daemon log for the status of your autorefresh operation.
5287	Unexpected status returned by autorefresh, see daemon log	The `ttCacheAutorefresh` built-in procedure encountered an unexpected status return value from the autorefresh operation. Check the daemon log for issues.
5288	Autorefresh failed due to contact lost with Oracle (dead cache group)	The autorefresh operation failed because contact with the Oracle database has been lost. Check the status of the Oracle database.
5289	Operation failed because *user* lacks Oracle RDBMS privilege *privilege*. *Action_statement*.	Grant the user the appropriate privilege within the Oracle database.
5293	Cache Propagation will be serialized for AWT cache table *owner*.*table* because the following Oracle unique indexes and constraints on this table contain cached columns that do not have corresponding unique indexes and constraints on TimesTen: *lst_oracle_indexes_constraints*	**Type of Message:** Warning **Cause:** The specified unique constraints and indexes on the cached Oracle database table do not have corresponding unique indexes and constraints on TimesTen. **Impact:** Transactions that contain DML to the specified table will not be propagated in parallel to the Oracle database. This will impact the throughput to the Oracle database. **User Action:** Ensure that the unique constraints and indexes on the cached Oracle database have corresponding unique indexes and constraints on the TimesTen table.
5294	For Oracle tables that are cached in an AWT cache group, propagation will be serialized because there are Oracle tables with unique indexes and constraints that do not have corresponding unique indexes and constraints on TimesTen.	**Type of Message:** Warning **Cause:** Some unique constraints and indexes on the cached Oracle database table do not have corresponding unique indexes and constraints on TimesTen. **Impact:** Transactions that contain DML will not be propagated in parallel to the Oracle database. This will impact the throughput to the Oracle database. **User Action:** Ensure that the unique constraints and indexes on the cached Oracle database have corresponding unique indexes and constraints on the TimesTen table.

Error number	Error or warning message	Details
5295	Propagation will be serialized on AWT cache table *owner.table* because the following Oracle foreign key constraints on this table contain cached columns that do not have corresponding foreign key constraints on TimesTen: *lst_oracle_fk_constraints*	**Type of Message:** Warning **Cause:** The specified foreign key constraints on the cached Oracle database table do not have corresponding foreign key constraints on TimesTen. **Impact:** Transactions that contain DML to the specified table will use serialized propagation to the Oracle database. This will impact the throughput to the Oracle database. **User Action:** To ensure the best throughput to the Oracle database, recreate the TimesTen cache group using the foreign key constraint. If you cannot recreate the TimesTen cache group, transactions will use serialized propagation to the Oracle database. For more information on dropping a TimesTen cache group, see "Dropping a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on creating a cache group, see "Creating a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
5296	Propagation will be serialized on AWT cache table *owner.table* because the following Oracle unique indexes, unique or foreign key constraints on this table contain cached columns that do not have corresponding constraints on TimesTen: *lst_oracle_constraints*	**Type of Message:** Warning **Cause:** The specified unique indexes, unique constraints and foreign key constraints on the cached Oracle database table do not have corresponding constraints on TimesTen. **Impact:** Transactions that contain DML to the specified table will use serialized propagation to the Oracle database. This will impact the throughput to the Oracle database. **User Action:** 1. Ensure that the unique constraints and indexes on the cached Oracle database have corresponding unique indexes and constraints on the TimesTen table. 2. To ensure the best throughput to the Oracle database, recreate the TimesTen cache group using the foreign key constraint. If you cannot recreate the TimesTen cache group, transactions will use serialized propagation to the Oracle database. For more information on dropping a TimesTen cache group, see "Dropping a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on creating a cache group, see "Creating a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.

Error number	Error or warning message	Details
5297	The following Oracle foreign key constraints on AWT cache table *owner.table* contain cached columns that do not have corresponding foreign key constraints on TimesTen: *lst_oracle_constraints*	**Type of Message:** Informational **Cause:** The specified table on the cached Oracle database has a foreign key constraint that does not have corresponding foreign key constraint on TimesTen. **Impact:** None. **User Action:** None.
5298	Propagation will be serialized because there are Oracle tables with unique indexes, unique or foreign key constraints that are cached in an AWT cache group with parallel propagation enabled that do not have the corresponding constraint on TimesTen.	**Type of Message:** Warning **Cause:** Some unique indexes, unique constraints and foreign key constraints on the cached Oracle database table do not have corresponding constraints on TimesTen. **Impact:** Transactions that contain DML to the specified table will use serialized propagation to the Oracle database. This will impact the throughput to the Oracle database. **User Action:** 1. Ensure that the unique constraints and indexes on the cached Oracle database have corresponding unique indexes and constraints on the TimesTen table. 2. To ensure the best throughput to the Oracle database, recreate the TimesTen cache group using the foreign key constraint. If you cannot recreate the TimesTen cache group, transactions will use serialized propagation to the Oracle database. For more information on dropping a TimesTen cache group, see "Dropping a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on creating a cache group, see "Creating a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
5299	There are Oracle tables with unique indexes, unique or foreign key constraints that are cached in an AWT cache group with parallel propagation enabled that do not have the corresponding constraint on TimesTen.	**Type of Message:** Informational **Cause:** Some Oracle database tables have unique indexes, unique constraints, or unique foreign key constraints that do not have corresponding on TimesTen. **Impact:** None. **User Action:** None.

Error number	Error or warning message	Details
5300	Parameter bindings are not allowed in the select statement	**Type of Message:** Error **Cause:** The Oracle database select query you specified for the built-in procedure or command contains parameter bindings. Parameter bindings are not supported by the `ttTableSchemaFromOraQueryGet` built-in procedure, the `ttLoadFromOracle` built-in procedure, and the `createAndLoadfromOraQuery` command. **Impact:** The call to the built-in procedure or command failed. **User Action:** Remove the parameter bindings from the Oracle database select query and call the built-in procedure or command. For more information on the `ttTableSchemaFromOraQueryGet` built-in procedure, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in procedure, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.
5301	The Load From Oracle feature cannot be used to load cache group tables	**Type of Message:** Error **Cause:** The TimesTen table you specified for the built-in procedure or command is part of a cache group. The `ttTableSchemaFromOraQueryGet` built-in procedure, the `ttLoadFromOracle` built-in procedure, and the `createAndLoadfromOraQuery` command do not support Loading into TimesTen cache group tables. **Impact:** The call to the built-in procedure or command failed. **User Action:** Specify a table that is not part of a cache group and call the built-in procedure or command. For more information on the `ttTableSchemaFromOraQueryGet` built-in procedure, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in procedure, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
5302	The Load From Oracle feature cannot be used with passthrough level 3	**Type of Message:** Error **Cause:** The `PassThrough` attribute of the TimesTen Cache is set to 3. **Impact:** The call to the built-in procedure or command failed. **User Action:** Specify a `PassThrough` level that is not 3 for the TimesTen Cache and call the built-in procedure or command. For more information on `PassThrough` levels, see "PassThrough" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.
5303	Create table statement generated is too long	**Type of Message:** Error **Cause:** The built-in procedure or command generated a `CREATE TABLE` statement that exceeds the maximum length for a SQL statement. The `CREATE TABLE` statement was generated by the `ttTableSchemaFromOraQueryGet` built-in, or the `ttLoadFromOracle` built-in, or the `createAndLoadfromOraQuery` command. **Impact:** The generated `CREATE TABLE` statement cannot be executed. **User Action:** Modify the Oracle database SQL statement to shorten the length of the generated `CREATE TABLE` statement and call the built-in procedure or command. For more information on system limits, see "System limits and defaults" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
5304	The Load From Oracle feature cannot be used to load LOB columns	**Type of Message:** Error
		Cause: The TimesTen table you specified for the built-in procedure or command contains LOB data types. TimesTen tables that contain LOB data types are not supported by the `ttTableSchemaFromOraQueryGet` built-in, the `ttLoadFromOracle` built-in, and the `createAndLoadfromOraQuery` command.
		Impact: The call to the built-in procedure or command failed.
		User Action: Remove or change the LOB data types to a supported type and call the built-in procedure or command.
		For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.
5305	Oracle query does not match TimesTen table schema. Mismatched number of columns between the TimesTen table (*num_tt_column* columns) and Oracle query (*num_ora_column* columns)	**Type of Message:** Error
		Cause: The number of columns in the TimesTen table does not match the number in the Oracle database query result set. The mismatch was detected when you executed the `ttTableSchemaFromOraQueryGet` built-in, or the `ttLoadFromOracle` built-in, or the `createAndLoadfromOraQuery` command.
		Impact: The call to the built-in procedure or command failed.
		User Action: Examine the TimesTen table and the Oracle database query to resolve the mismatch. Then call the built-in procedure or command.
		For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
5306	The Oracle statement must be a valid select query.	**Type of Message:** Error
		Cause: The Oracle database statement you provided is not a valid select query. The Oracle database statement must be a valid select query to use the `ttTableSchemaFromOraQueryGet` built-in, or the `ttLoadFromOracle` built-in, or the `createAndLoadfromOraQuery` command.
		Impact: The call to the built-in procedure or command failed.
		User Action: Ensure that the Oracle database statement is a valid select query and call the built-in procedure or command.
		For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.
5307	The Load From Oracle feature cannot be used to load materialized view tables or detail tables of views	**Type of Message:** Error
		Cause: You attempted to load data into a TimesTen materialized view or a detailed view using the built-in or command. Loading data into TimesTen materialized views and detailed views is not supported by the `ttTableSchemaFromOraQueryGet` built-in, the `ttLoadFromOracle` built-in, and the `createAndLoadfromOraQuery` command.
		Impact: The call to the built-in procedure or command failed.
		User Action: Loading data into TimesTen materialized views and detailed views is not supported by the `ttTableSchemaFromOraQueryGet` built-in, or the `ttLoadFromOracle` built-in, or the `createAndLoadfromOraQuery` command.
		For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
5308	The Load From Oracle feature cannot be used to load temporary tables	**Type of Message:** Error **Cause:** You attempted to load data into a TimesTen temporary table using the built-in or command. Loading data into TimesTen temporary tables is not supported by the `ttTableSchemaFromOraQueryGet` built-in, the `ttLoadFromOracle` built-in, and the `createAndLoadfromOraQuery` command. **Impact:** The call to the built-in procedure or command failed. **User Action:** Loading data into TimesTen temporary tables is not supported by the `ttTableSchemaFromOraQueryGet` built-in, or the `ttLoadFromOracle` built-in, or the `createAndLoadfromOraQuery` command. For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.
5309	The Load From Oracle feature cannot be used to load dictionary tables	**Type of Message:** Error **Cause:** You attempted to load data into a TimesTen dictionary table. Loading data into TimesTen dictionary tables is not supported by the `ttTableSchemaFromOraQueryGet` built-in, the `ttLoadFromOracle` built-in, and the `createAndLoadfromOraQuery` command. **Impact:** The call to the built-in procedure or command failed. **User Action:** Loading data into TimesTen dictionary tables is not supported by the `ttTableSchemaFromOraQueryGet` built-in, or the `ttLoadFromOracle` built-in, or the `createAndLoadfromOraQuery` command. For more information on dictionary tables, see "In-memory columnar compression of tables" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on the `ttTableSchemaFromOraQueryGet` built-in, see "ttTableSchemaFromOraQueryGet" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttLoadFromOracle` built-in, see "ttLoadFromOracle" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `createAndLoadfromOraQuery` command, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
5311	AWT cache group with parallel propagation enabled constraint check: *object owner*.*name* : *constraint_check_status*	**Type of Message:** Informational **Cause:** This informational message is in the daemon log while the constraint check is being performed. **Impact:** None. **User Action:** None.
5313	Load From Oracle Error: Data truncated for table *table_name*, column *column_name*, value *value*...	**Type of Message:** Error **Cause:** TimesTen encountered a truncation error while trying to insert data from the Oracle database into the specified TimesTen column. The specified value might be a partial value. **Impact:** The load operation is terminated. The load operation periodically commits and successful operations are not rolled back. Some data might have been imported into TimesTen before the operation terminated. **User Action:** Modify the Oracle database query, or the TimesTen table, or both to ensure that the Oracle database data can be loaded into the specified TimesTen table. To retry a failed parallel load operation, delete previously inserted rows from the TimesTen table to avoid duplicate rows.
5314	Load From Oracle Warning: Cannot check for truncation of char/nchar columns for this load.	**Type of Message:** Warning **Cause:** The Oracle database statement you specified could not be checked for truncation of CHAR and NCHAR values. Common causes for this are: - The Oracle database statement you specified might contain an ORDER BY clause. - The Oracle database statement you specified might exceed maximum query length once TimesTen rewrites the statement to be used by the ttLoadFromOracle built-in or the createAndLoadfromOraQuery command. **Impact:** CHAR and NCHAR column values may be truncated by the ttLoadFromOracle built-in or the createAndLoadfromOraQuery command. **User Action:** Review the daemon log for more details about the warning. If you require TimesTen to check for CHAR or NCHAR truncation, ensure that the column lengths in the Oracle database and TimesTen are the same. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
5321	`Could not get the maximum reclaim cache size configuration parameter`	**Type of Message:** Error **Cause:** The cache agent could not retrieve the maximum reclaim cache size configuration parameter. Review the daemon log for any additional error messages to determine a cause for the error message. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*. **Impact:** The cache agent will retry this operation later. Review the daemon log for any additional impacts. **User Action:** Review the daemon log for any possible fixes.
5322	`Could not set the maximum reclaim cache size for the session`	**Type of Message:** Error **Cause:** The cache agent could not set the maximum reclaim cache size for the session. **Impact:** The cache agent will retry this operation later. **User Action:** None.
5323	`Maximum reclaim cache size set to max_reclaim_cache_size for receiver_thread_track_id`	**Type of Message:** Informational **Cause:** The maximum reclaim cache size is now set to the specified value. **Impact:** None. **User Action:** None.
5324	`There was an error while getting the statistics for interval interval_value ms: detailed_error_message`	**Type of Message:** Error **Cause:** An error occurred while retrieving the autorefresh statistics for the specified interval. A detailed error message follows this message. **Impact:** The autorefresh statistics are not returned. **User Action:** Review the error message for possible fixes.
5325	`Deferring autorefresh because of unmarked records in log table table_name. (marked, unmarked, eoLog) = (marked_rows, unmarked_rows, max_sequence_num_in_log_tbl)`	**Type of Message:** Informational **Cause:** Too many unmarked autorefresh change log records exist in the specified log table. **Impact:** The autorefresh operation for the TimesTen cache group is temporarily deferred. **User Action:** None.

Error number	Error or warning message	Details
5326	`max_reclaim_cache_size` setting must be less than the total temporary space size (`ttl_temp_space` MB)	**Type of Message:** Error **Cause:** You specified a maximum reclaim buffer size for the cache agent that is greater than the total temporary space size. **Impact:** The specified reclaim buffer size for the cache agent is not set. **User Action:** Use the `CacheAgentCommitBufSize` parameter of the `ttDBConfig` built-in procedure to specify a reclaim buffer size that is less than the total temporary space size. For more information about the `ttDBConfig` built-in procedure, see "ttDBConfig" in the *Oracle TimesTen In-Memory Database Reference*.
5800	`Could not allocate a statement handle`	The TimesTen cache agent was not able to allocate either an Oracle database 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 occurs when the TimesTen cache agent is not able to access the log table or the log table is corrupt. When this happens the agent tries to access the log table a few times. If all attempts fail, the agent stops incrementally auto-refreshing the cache group.
5901	`The Oracle refresh log table,` `log_table_name`, `for base table,` `owner.table`, `cannot be found.`	The log table `log_table_name` for autorefresh of the table `owner.table` cannot be found. It may be that the cache administrator user does not have sufficient privileges to read the log table.
5902	`Internal error: The length of the name of the Oracle object has exceeded the expected length.`	**Type of Message:** Internal error **Cause:** The length of the name of the Oracle database object has exceeded the expected length. **Impact:** The severity of the impact is unknown and requires additional diagnosis. **User Action:** Contact TimesTen Customer Support.
5903	`Autorefresh log table was truncated during incremental refresh. Full refresh will take place.`	**Type of Message:** Error **Cause:** Rows in the autorefresh log table were deleted during an incremental refresh. **Impact:** TimesTen is performing a full refresh to recover the autorefresh log table. **User Action:** Do not delete rows from the TimesTen internal tables TT_*XX_YYYY*, where *XX* is the two digit version number and *YYYY* is the assigned TimesTen name.

Error number	Error or warning message	Details
5904	A cache admin uid was not set before starting the cache agent.	If you are incrementally refreshing a cache group, the cache administrator user ID is required.
		1. Stop the agent.
		2. Set the cache administration user ID and password by using either the `ttCacheUidPwdSet` procedure or `ttAdmin -cacheUidPwdSet -cacheUid -cachePwd`.
		3. Restart the agent.
5905	A cache admin pwd was not set before starting the cache agent. The Oracle objects required for incremental autorefresh must be created manually.	1. Stop the agent.
		2. Set the cache administration user ID and password by using either the `ttCacheUidPwdSet` procedure or `ttAdmin -cacheUidPwdSet -cacheUid -cachePwd`.
		3. Restart the agent.
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 `ttCacheUidPwdSet` procedure or the `ttAdmin` utility and retry the operation.
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 ttCacheUidPwdSet or the utility ttAdmin and try again.	Set the cache administration user ID and password by using either the `ttCacheUidPwdSet` procedure or the `ttAdmin` 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 ttCacheUidPwdSet or the utility ttAdmin and try again.	The TimesTen cache agent must be started with the cache administration user ID and password for autorefresh and AWT cache groups.
		1. Stop the agent.
		2. Set the cache administration user ID and password by using either the `ttCacheUidPwdSet` procedure or `ttAdmin -cacheUidPwdSet -cacheUid -cachePwd`.
		3. Restart the agent.
5911	Could not login into Oracle using the cache admin user id and password.	The TimesTen cache agent was not able to login into the Oracle database 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 database 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 database SID for the DSN.

Error number	Error or warning message	Details
5913	Table parameter should be NULL	The table_name parameter for the ttCacheSqlGet built-in procedure should be NULL.
5914	not found in Oracle.	The TimesTen cache agent could not find the Oracle database table to be cached. Check if the table exists on the Oracle database. Also verify that the cache administration user ID has the privilege to access the table.
5917	Object id *ID* not found or the user *user* does not have sufficient privilege to view the object	Indicates that either the Oracle database table that was cached has been dropped in the Oracle database or, if this error is returned in response to a CREATE CACHE GROUP statement, the specified Cache Agent account does not have the appropriate privileges. See "Grant privileges to the Oracle database users" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* 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 the Oracle database, or the specified cache agent account does not have the appropriate privileges.
5919	The *type name* 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 *objectID* or log table *table_name* for cache group *cache_group_name* not found on Oracle	TimesTen cannot find the Oracle database object with ID *objectID* or the TimesTen installed table *table_name* 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 the Oracle database.
5921	Could not connect to Oracle. Check the status of the Oracle instance.	Verify that the Oracle database 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 ttCacheStop procedure is too small. The default value is used. Autorefresh does 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 or DROP CACHE GROUP statement cannot be completed because the cache agent is still waiting to connect to the Oracle database. Verify the Oracle database 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
5925	Cache admin user does not have privilege to create *trigger_name* trigger. Grant CREATE ANY TRIGGER privilege or use ttCacheSqlGet built-in to manually create the trigger	The cache administrator does not have Oracle database CREATE TRIGGER privileges, so the operation failed. Either grant the privilege to the cache administrator UID or use the ttCacheSqlGet built-in procedure to manually execute the SQL statement.
5926	An error occurred while processing a child table	**Type of Message:** Error **Cause:** TimesTen autorefreshed a child table before the parent table from a multi-table cache group causing a foreign key violation. **Impact:** The autorefresh cycle fails. TimesTen will retry the autorefresh operation. **User Action:** None.
5935	Could not validate Oracle login: uid = *Oracle_UID*, pwd = HIDDEN, OracleNetServiceName = *Oracle_Service_Name*, TNS_ADMIN = "*tns_admin*" , ORACLE_HOME= "*Oracle_home*"	TimesTen Cache failed to verify the Oracle database login for named user ID.The common causes of this error are: ■ The specified UID/PWD is incorrect. ■ The OracleNetServiceName setting is incorrect. ■ The Oracle database listener is down. ■ The Oracle database is down. Troubleshoot the causes and then retry the operation.
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 ttOracleAgentStart.
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 before the start of the cache agent if there are autorefresh or asynchronous writethrough cache groups. Use the ttCacheUidPwdSet procedure to set the User ID and password and restart the cache agent.
5938	*owner.name* or *owner.name* table does not exist on Oracle. Oracle objects related to cache groups may not get cleaned up.	The specified objects created by TimesTen on the Oracle database are missing. Drop and recreate the cache groups in TimesTen.
5940	The operation failed because the cache admin uid could not be verified. Reconnect and try again.	The cache group operation requires that the cache agent be first started with the assigned cacheUid and cachePwd. 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 *cacheUid* to *cacheUid*. 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 cacheUid.

Error number	Error or warning message	Details
5942	The specified cache admin uid *cacheUid* and pwd (hidden) does not match the stored ones. Use ttCacheUidPwdSet() 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 ttCacheUidPwdSet procedure.
5943	The source datastore cache admin uid *cacheUid* is different from the destination datastore cache admin uid *cacheUid*.	The cache administration user ID must be the same on the source database and the destination database.
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 Standy schemes must specify -noKeepCg	When duplicating databases that contain Active Standby schemes, cache group tables cannot be maintained as cache group tables. You must specify the -noKeepCG option with ttRepAdmin -duplicate.
5949	Cache agent uid *UID* is different from the data store cache uid *UID*	Internal error. Contact TimesTen Customer Support.
5950	Lack Oracle privileges to create metadata objects on Oracle. Either grant appropriate privileges to cache admin user and try again or install the objects manually.	You must have the appropriate privileges on the Oracle database to create the requested objects. Either obtain the appropriate privileges or install the objects manually.
5951	Lack Oracle privileges to create metadata objects on Oracle. Either grant appropriate privileges to cache admin user and try again or install the objects manually.	You must have the appropriate privileges on the Oracle database to create the requested objects. Either obtain the appropriate privileges or install the objects manually.
5952	Metadata objects on Oracle are missing. Either grant appropriate privileges to cache admin user to create the objects and reexecute ttCacheUidPwdSet or install the objects manually	The cache admin user does not have the appropriate Oracle database privileges to create and store metadata information on the Oracle database server. Either grant the appropriate privileges to the cache admin user on the Oracle database server or install the metadata objects manually.

Error number	Error or warning message	Details
5953	The *string string* is different from when the cache was created or could not be found. Check if you have SELECT privileges to the table on Oracle Database. If you have privileges, then the cache group definition is no longer valid.	If the user has SELECT privileges to the table on the Oracle database server, then the cache group is no longer valid. You will need to recreate the cache group.
5954	Error while informing the *replication_or_cache_agent* agent of a configuration change: *configuration_change*	**Type of Message:** Warning **Cause:** You attempted to call the ttCacheConfig built-in procedure, but the specified agent is down. For more information on the ttCacheConfig built-in procedure, see "ttCacheConfig" in the *Oracle TimesTen In-Memory Database Reference*. **Impact:** The specified configuration change cannot be passed to the specified agent. **User Action:** Start the specified agent. - Cache agent: Call the ttCacheStart built-in procedure to start the cache agent. For more information on the ttCacheStart built-in procedure, see "ttCacheStart" in the *Oracle TimesTen In-Memory Database Reference*. - Replication agent: Call the ttRepStart built-in procedure to start the replication agent. For more information on the ttRepStart built-in procedure, see "ttRepStart" in the *Oracle TimesTen In-Memory Database Reference*.
5955	Autorefresh log table space monitoring and management will not be done since the cache admin user's tablespace management setting on ORACLE is not AUTO	**Type of Message:** Warning **Cause:** The tablespace management setting for the Oracle database is set to AUTO. **Impact:** The monitoring and management feature for the autorefresh log tablespace on the Oracle database is not enabled. **User Action:** If you want to enable the monitoring and management feature for the autorefresh log tablespace on the Oracle database, see "Specifying Segment Space Management in Locally Managed Tablespaces" in the *Oracle Database Administrator's Guide*.

Error number	Error or warning message	Details
5956	Autorefresh log table space monitoring and management will not be done since there are no autorefresh trigger log tables in cache admin user's schema	**Type of Message:** Informational **Cause:** No autorefresh change log tables exist in the schema of the cache administration user. A common cause for this is that the cache agent was started before the read-only cache groups were created. **Impact:** The monitoring and management feature for the autorefresh log tablespace on the Oracle database is not enabled. **User Action:** None.
5957	Failed to retrieve the upper bound of the SELECT statement.	**Type of Message:** Error **Cause:** The cache agent cannot retrieve the upper bound that is used by the query that retrieves the rows to be refreshed. **Impact:** The cache agent retries the autorefresh operations. **User Action:** None.
5958	*autorefresh_step* duration time: *duration_time* ms	**Type of Message:** Informational **Cause:** The cache agent completed a step from the autorefresh work flow. The duration of the step was recorded in the autorefresh change log table. **Impact:** None. **User Action:** None.
5959	Change log table: *change_log_table*, COUNT(logseq): *num_rows*, MIN(logseq): *min_bookmark*, MAX(logseq): *max_bookmark*, curSOLog: *cache_agent_current_bookmark*, retrieved curSOLog: *table_current_bookmark*	**Type of Message:** Error **Cause:** The cache agent encountered an error while retrieving information from the autorefresh change log table. The statistics from the table are specified in the message. **Impact:** The cache agent rolls back and retries the autorefresh operation. **User Action:** If the error persists, contact TimesTen Customer Support.
5960	Change log table: *change_log_table*, curSOLog: *current_bookmark* was not found	**Type of Message:** Error **Cause:** The cache agent could not find the current autorefresh bookmark from the specified change log table. **Impact:** The cache agent rolls back and retries the autorefresh operation. **User Action:** If the error persists, contact TimesTen Customer Support.
5961	Successfully executed the following Oracle SQL statement: *sql_statement*	**Type of Message:** Informational **Cause:** TimesTen successfully executed the specified SQL statement in the Oracle database. **Impact:** None. **User Action:** None.

Error number	Error or warning message	Details
5990	A fatal error occurred in the cache agent.	Cache agent reports an irrecoverable error during autorefresh. Contact TimesTen Customer Support 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 retries 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 database objects that were used in a previous autorefresh process. Before dropping the orphaned object, the agent locks the `FT_USER_COUNT` table so that no other agent can create new or drop old Oracle database objects. This warning is triggered when the agent was not able to lock the `FT_USER_COUNT` table.
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 the Oracle database is not compatible with this version of TimesTen Cache. Uninstall and reinstall the Oracle database objects for autorefresh manually. For more information, see "Manually creating Oracle Database objects for autorefresh cache groups" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* 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 database-level locking is allowed. Reset `LockLevel` 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 only appears in the TimesTen user error log. For information on lock resources and modes indicated in this message, see "ttXactAdmin" in *Oracle TimesTen In-Memory Database Reference*.
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 restart the whole transaction. For information on lock resources and modes indicated in this message, see "ttXactAdmin" in *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
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 *Oracle TimesTen In-Memory Database Reference*.
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 memory region. Compact the database, or increase the size of the temporary memory region.
6006	Lock-wait interval must be between 0 and 1,000,000	The lock-wait interval is out of range. Call the ttLockWait 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 database is not valid. See the description of error 994 for more information.
6011	lock request denied (locksleep error *error*)	Internal error. Contact TimesTen Customer Support.
6013	Bad value for check Override parameter, should be 0 or 1	Provide the appropriate attribute value. Legal values are 0 or 1.
6014	Row list maintenance error. To avoid this 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.
6015	Transaction priority value must be between 0 and 65535	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
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 SELECT.
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	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: - Logging is turned off, and- A searched CREATE VIEW (DELETE FROM ... WHERE ...) is issued on a table on which this transaction also has an open cursor, and: - The transaction does the next fetch on the cursor and tries to fetch the rows it deleted with the searched delete.
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 statement 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.

Error number	Error or warning message	Details
6112	Ref cursor binds are not allowed in SQL statements executed from PL/SQL	This error is thrown whenever refcursor bindings are found in any SQL statements from PLSQL.
6113	SQL statement has been canceled	The currently executing SQL statement was canceled by user request.
6200	New value for permanent data region size ignored since smaller than current value of *megabyte_count* megabytes	Warning: Connect PermSize is ignored if it is smaller than or only slightly greater than the current permanent memory region size. To avoid this warning, increase the value of the PermSize attribute or set PermSize=0 to leave the permanent memory region 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, MaxSize and LogFileSize are expressed in megabytes. Overflow occurred when converting them to bytes.
6206	Heap is full	This error indicates that the database's allocation structures are full. Try freeing any items possible or compacting the database. See "ttCkptBlocking" in *Oracle TimesTen In-Memory Database Reference*. Disconnecting all connections and reconnecting may also free up some space.
6212	MemoryLock connection attribute not supported on this platform	The MemoryLock connection attribute is supported only on select platforms.
6220	Permanent data region free space insufficient to allocate *byte_count* bytes of memory	This error is pushed following error 802 and indicates the region in which memory has been exhausted.
6221	Temporary data region free space insufficient to allocate *byte_count* bytes of memory	This error is pushed following error 802 and indicates the region in which memory has been exhausted.
6222	Permanent data region in use size has exceeded PermWarnThreshold	This warning is returned when a memory allocation in the permanent memory region causes the threshold to be exceeded, and memory threshold warnings have been enabled by the ttWarnOnLowMemory built-in procedure.
6223	Temporary data region in use size has exceeded TempWarnThreshold	This warning is returned when a memory allocation in the temporary memory region causes the threshold to be exceeded, and memory threshold warnings have been enabled by the ttWarnOnLowMemory built-in procedure.

Error number	Error or warning message	Details
6226	`Ignoring value requested for first connection attribute 'attribute_name' -- value currently in use: used_value, requested value: requested_value`	**Type of Message:** Warning **Cause:** You attempted to connect to a database with a different value for the specified first connection attribute than the value given in the first connection to the database. **Impact:** TimesTen ignores the value not in use for the specified first connection attribute and connects to the database. **User Action:** Close all active connections to the database, unload the database from memory, and retry the operation. To unload the database from memory, you may need to set the RAM policy of the database to `manual` or `inUse`. For more information on setting the RAM policy to `manual` or `inUse`, see "Specifying a RAM policy" in the *Oracle TimesTen In-Memory Database Operations Guide*.
6228	`Invalid value (specified_value) for attribute_name connection attribute -- value must be correct_value`	**Type of Message:** Error **Cause:** You attempted to connect to a database with a different value for the specified connection attribute than the value given in the database creation process. **Impact:** TimesTen cannot connect to the database. **User Action:** To modify the specified connection attribute, destroy and recreate the database with the desired value for the specified connection attribute. For more information on connection attributes, see "Connection Attributes" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
6229	Fatal error: cannot rollback transaction because out-of-space condition prevents re-inserting old values into index(es). Reconnect with a larger PermSize	**Type of Message:** Internal Error **Cause:** A transaction cannot rollback because your database has run out of available disk space. A common cause for this is that your PermSize attribute is set too low. **Impact:** The database is invalidated. If the ramPolicy parameter of the ttRamPolicySet built-in procedure is set to always, automatic recovery might fail. For more information on the ttRamPolicySet built-in procedure, see "ttRamPolicySet" in the *Oracle TimesTen In-Memory Database Reference*. **User Action:** Check and modify the values of PermSize and TempSize so that your database has at least five percent available space on each region. For more information on how to check the amount of memory in use by the database, see "Check the amount of memory allocated to the database" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*. For more information on how to increase the values of PermSize and TempSize, see "Specifying the size of a database" in the *Oracle TimesTen In-Memory Database Operations Guide*. If you still receive this error, contact TimesTen Customer Support.
6230	Cannot perform DML such as update and DDL such as create index or alter table in same transaction when using DDLCommitBehavior=1	This error is returned when using DDLCommitBehavior=1. If DDLCommitBehavior=1, TimesTen allows multiple DML and DDL statements in the same transaction. However, some mixes of DML and DDL in the same transaction while using DDLCommitBehavior=1 are no longer allowed. For example, you will see this error when updating rows in a table and then creating an index on that same table (or updating rows in a table and then resizing that table's hash index with ALTER TABLE ... PAGES = *n*). To prevent this error, do not mix DML and DDL in the same transaction. Ensure that the DDL operation is in its own transaction.

Errors 7000 - 7999

Error number	Error or warning message	Details
7000	SQL statement exceed 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.

Error number	Error or warning message	Details
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. See "Built-In Procedures" in *Oracle TimesTen In-Memory Database Reference*.
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: *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.

Error number	Error or warning message	Details
7017	Unknown optimizer flag *flag_name*	The name of the flag provided to the optimizer is invalid. For the complete list of flags, see "ttOptSetFlag" in the *Oracle TimesTen In-Memory Database Reference.*
7018	Creation of user objects in system-user schemas is not allowed	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.
7022	Recovery must increase size of permanent data region; specify a permanent region size of at least *megabyte_count* megabytes	The redo log indicates that a grow operation took place after the most recent checkpoint.
7023	Unable to rebuild nonpersistent structures during redo (error at step *number*)	Internal error. Contact TimesTen Customer Support.
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*	**Type of Message:** Error **Cause:** You specified an identifier or user name that is a keyword reserved by TimesTen. **Impact:** TimesTen cannot perform the operation. **User Action:** Select a different identifier or user name and retry the operation. If you want to perform an operation with an already existing identifier or user name registered with the specified keyword, add quotation marks to the specified identifier or user name and retry the operation. For more information on reserved words, see "Reserved Words" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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.

Error number	Error or warning message	Details
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.
7030	`Expression provided as argument for parameter_name paremeter message`	An expression cannot be provided as an argument for a *parameter_name*.
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`	**Type of Message:** Error **Cause:** The specified table does not have a unique index that can be used for replication. **Impact:** TimesTen cannot replicate the specified table. **User Action:** Ensure that every table has a unique index or a primary key. For more information, see "Table requirements and restrictions for classic replication schemes" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8001	`Attempt to read invalid LSN log record`	**Type of Message:** Error **Cause:** You attempted to read an invalid LSN log record. **Impact:** TimesTen cannot read the LSN log record. **User Action:** Specify a valid log file number and retry the operation.

Error number	Error or warning message	Details
8002	Cannot drop replicated table, index, or sequence	**Type of Message:** Error **Cause:** You attempted to use a SQL UPDATE statement to drop a replicated table, index, or sequence. **Impact:** TimesTen cannot perform the update operation. **User Action:** To drop a table, index, or sequence that is part of a replication scheme, alter the replication scheme using the ALTER REPLICATION SQL statement. For more information, see "ALTER REPLICATION" in the *Oracle TimesTen In-Memory Database SQL Reference*.
8003	Update older than TimeStamp of existing row	**Type of Message:** Error **Cause:** You attempted to perform an update that is older than the current timestamp for the row in the database. **Impact:** TimesTen cannot perform the update operation. If configured, TimesTen will generate a report of the conflict. For more information, see "Reporting conflicts to a text file" in the *Oracle TimesTen In-Memory Database Replication Guide*. **User Action:** Ensure that your update operation is out of date. If that is the case, consider discarding the UPDATE operation.
8004	Column *owner.table.column* cannot be used for replication timestamp checking if in an index or added by ALTER TABLE or if it is columnar; and must be binary(8) with NULL values allowed	**Type of Message:** Error **Cause:** You attempted to use the specified column for replication timestamp conflict resolution. **Impact:** TimesTen cannot use the specified column to perform replication timestamp conflict resolution. **User Action:** Ensure that the specified timestamp column is not part of an index, is of type BINARY(8) NULL, and was not added as part of an ALTER TABLE statement. For more information, see "Including a timestamp column in replicated tables" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8005	Invalid update rule for timestamp-based conflict checking	**Type of Message:** Error **Cause:** You did not specify a valid SYSTEM or USER parameter for the UPDATE BY clause. **Impact:** TimesTen cannot complete the SQL ALTER REPLICATION or the SQL CREATE REPLICATION operation. **User Action:** Ensure that your UPDATE BY clause is correctly defined for the ALTER REPLICATION or CREATE REPLICATION statement. Then, retry the operation. For more information, see "ALTER REPLICATION" and "CREATE REPLICATION" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
8006	`Application must set timestamp column with 'UPDATE BY USER'`	**Type of Message:** Error **Cause:** You are attempting to update a table that has enabled replication timestamp conflict resolution and contains an UPDATE BY USER clause. However, no timestamp value is defined. **Impact:** TimesTen cannot perform the update operation. **User Action:** Ensure that your replication timestamp conflict resolution column contains a valid timestamp value. Then, retry the operation. For more information, see "Configuring the CHECK CONFLICTS clause" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8007	`Cannot change aging attributes or add/drop aging policy of replicated tables while replication Agent is running`	**Type of Message:** Error **Cause:** You attempted to change the aging attributes, or add or drop an aging policy of replicated tables while the replication agent is running. **Impact:** TimesTen cannot perform the operation. **User Action:** Stop the replication agent and retry the operation. For more information about how to stop the replication agent, see "Starting and stopping the replication agents" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8009	`Transaction Log API Buffer size too small or too large`	**Type of Message:** Error **Cause:** You specified a transaction log buffer size that is out of the supported range for XLA. This message is followed by another message that describes the details of the failure. **Impact:** TimesTen cannot perform the XLA operations. **User Action:** Check the accompanying error message and consider increasing the transaction log buffer size. For more information, see "Increase transaction log buffer size when using XLA" in the *Oracle TimesTen In-Memory Database Operations Guide*.
8010	`Unable to attach to XLA segment`	**Type of Message:** Error **Cause:** TimesTen cannot attach to the XLA segment due to an environment issue. This message is followed by another message that describes the details of the failure. **Impact:** TimesTen cannot perform the operation. **User Action:** Check the accompanying error messages in the log to determine a possible solution to the environment issue.

Error number	Error or warning message	Details
8011	Unable to re-configure active XLA segment	**Type of Message:** Error **Cause:** You attempted to change the transaction log buffer size in an active transaction. **Impact:** TimesTen cannot reconfigure the XLA segment. **User Action:** Contact TimesTen Customer Support.
8012	Table with given ID not found	**Type of Message:** Error **Cause:** Table with the user-specified ID does not exist in the database. **Impact:** TimesTen cannot correctly complete a full (non-incremental) autorefresh on the cache group. **User Action:** Check the accompanying error messages in the log and contact TimesTen Customer Support.
8013	Attempt to specify illegal version	**Type of Message:** Error **Cause:** You specified an invalid TimesTen release version. **Impact:** Applications that call the ttXlaSetVersion function cannot execute correctly. For more information on the ttXlaSetVersion function, see "ttXlaSetVersion" in the *Oracle TimesTen In-Memory Database C Developer's Guide*. **User Action:** Ensure that your TimesTen XLA version is the same version (or an earlier version) as the *actualVersion* output from the ttXlaGetVersion function. For more information on the ttXlaGetVersion function, see "ttXlaGetVersion" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
8016	No replication buffer configured	**Type of Message:** Error **Cause:** TimesTen does not have a replication buffer configured. **Impact:** The transaction log buffer cannot store updates. **User Action:** Contact TimesTen Customer Support.
8017	Foreign table has *number* columns while local table has *number* columns	**Type of Message:** Error **Cause:** The tables that TimesTen is comparing have a different number of columns. **Impact:** Table information received from the foreign table is not compatible with the local table definition. **User Action:** None.

Error number	Error or warning message	Details
8018	`Foreign table indexed on different columns`	**Type of Message:** Error **Cause:** The tables that TimesTen is comparing have different primary key definitions. **Impact:** TimesTen cannot execute the `ttXlaApply` function call and cannot update the target database. **User Action:** Ensure that the table definitions are the same for your source and target databases. For more information on the `ttXlaApply` function, see "ttXlaApply" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
8019	`Foreign and local table differ on column type type`	**Type of Message:** Error **Cause:** The tables that TimesTen is comparing have different column data types. **Impact:** TimesTen cannot execute the `ttXlaApply` function call and cannot update the target database. **User Action:** Ensure that the table definitions are the same for your source and target databases. For more information on the `ttXlaApply` function, see "ttXlaApply" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
8020	`Inconsistent row in update description`	**Type of Message:** Error **Cause:** The `ttXlaGenerateSQL` function is attempting to retrieve a tuple that is not valid. **Impact:** TimesTen cannot execute the `ttXlaGenerateSQL` function call. **User Action:** Ensure that the `ttXlaGenerateSQL` function is retrieving the tuple correctly. For more information on the `ttXlaGenerateSQL` function, see "ttXlaGenerateSQL" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
8021	`System table ID invalid`	**Type of Message:** Error **Cause:** TimesTen cannot retrieve the table definition details for the specified table ID. **Impact:** The function call fails. **User Action:** Specify a valid table ID.

Error number	Error or warning message	Details
8023	Table row does not have expected value	**Type of Message:** Error **Cause:** The contents of the row do not match the expected values in the transaction log update. **Impact:** TimesTen cannot execute the `ttXlaApply` function call. **User Action:** Ensure that you specify a valid row structure for the `ttXlaApply` function. For more information on the `ttXlaApply` function, see "ttXlaApply" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
8024	Illegal XLA record type	**Type of Message:** Error **Cause:** The XLA record is invalid or unsupported. **Impact:** TimesTen cannot execute the `ttXlaApply` function call. **User Action:** Specify a valid XLA record for the `ttXlaApply` function. For more information on the `ttXlaApply` function, see "ttXlaApply" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
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	**Type of Message:** Error **Cause:** A replication peer has set the replication state of this database to `FAILED`. This happens when the amount of logs that the peer is holding for the database exceeds a user configurable threshold. For more information, see "Setting the log failure threshold" and "Subscriber failures" in the *Oracle TimesTen In-Memory Database Replication Guide*. **Impact:** The TimesTen database is out of sync with the master database. **User Action:** Recover the `FAILED` database and resume replication. For more information, see "Recovering a failed database" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8027	Network load of data store not allowed because connection was reset	Network error occurred while running a `ttRepAdmin -duplicate` operation. Check your network connections. Ensure 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 `ttRepAdmin -duplicate` operation. Check your network connections. Ensure that the remote replication agent is still running. if not, restart the replication agent.

Error number	Error or warning message	Details
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 ttXlaGenerateSQL does not translate into SQL.
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 database.
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 Customer Support.
8041	Invalid replCTNArr slot	Internal error. Contact TimesTen Customer Support.
8042	ReplCTNArr slot is not allocated	Internal error. Contact TimesTen Customer Support.
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 "Views and materialized views in a replicated database" in the *Oracle TimesTen In-Memory Database Replication Guide* for more information.

Error number	Error or warning message	Details
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 database is allowed to recover only by restoring its state from a subscriber database using the -duplicate option of the ttRepAdmin utility. Use the ForceConnect 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 database.
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 wraps around with this operation.
8051	The alter table operation on a replicated table cannot be in a two safe by request transaction	Cannot use ALTER TABLE 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.
8055	Variable sized data of size *size* bytes exceeds maximum allowed by replication	**Type of Message:** Error **Cause:** The TimesTen replication agent encountered an out-of-line log record that has a data length that exceeds the maximum supported length for a replicated column. For more information on the maximum supported length for a replicated column, see "System limits and defaults" in the *Oracle TimesTen In-Memory Database Reference*. **Impact:** TimesTen fails to replicate a transaction. The subscriber database is not synchronized with the master database. **User Action:** Run the ttXactLog -v 3 utility on the master database and contact TimesTen Customer Support. For more information on the ttXactLog utility, see "ttXactLog" in the *Oracle TimesTen In-Memory Database Reference*.
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.

Error number	Error or warning message	Details
8061	Operation not permitted when the connection attribute ForceConnect is set to 1	The connection attribute ForceConnect 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 database is not in the ACTIVE state for a database that is part of an active standby replication scheme.
8063	Local store not completely quiesced	This error is returned when an active database 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 database 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 must 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 must 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 database match.
8070	The specified XLA bookmark does not exist	The XLA bookmark does not exist. You can create a bookmark using the ttXlaBookmarkCreate built-in procedure.
8071	A replicated bookmark can only be created on a store with active standby pair replication.	Enforcement of this restriction.
8072	Operation only permitted on an ACTIVE store.	User attempted an XLA operation that is only permitted on a database when in the ACTIVE state.
8073	Failed to update XLA bookmark :*bookmark*.	The replication agent on the standby database ran into a problem updating the XLA bookmark. The agent will keep trying until the condition that caused the error is alleviated. Standby updates to XLA bookmarks will fail every time this error is returned. Possible causes may be an unhealthy standby database or locks held on XLA tables on the standby database.

Error number	Error or warning message	Details
8074	Maximum number of bookmarks exceeded.	User attempted to create more than the maximum number of replicated bookmarks per database.
8075	Error loading bookmark list.	The replication agent ran into an error reading the set of replicated bookmarks from the database. Agent will keep trying until the condition that caused the error is alleviated. Possible causes may be an unhealthy standby database or locks held on XLA tables on the standby database.
8076	Bookmark reset due to state change at store.	The state of the database was recently changed. All the bookmarks that were open at the time of the state change need to be reset since their state may be stale. The bookmarks are reset and users can use them to read XLA updates.
8077	Error moving bookmark on the standby store.	The replication agent on the standby database ran into a problem updating the XLA bookmark. Agent will keep trying until the condition that caused the error is alleviated. Standby updates to XLA bookmarks will fail every time this error is returned. Possible causes may be an unhealthy standby database or locks held on XLA tables on the standby database.
8078	The deletion of replicated XLA bookmarks is not allowed while the replication agent is running.	Replicated bookmarks can only be removed when the local replication agent is not running.
8079	Cache group ownership table cannot be defined in a replication scheme.	An attempt was made to replicate a table used to store ownership table of a global cache group. Only cache group tables can be replicated.
8080	Variable data error information type *information_type information*	**Type of Message:** Error **Cause:** This error message provides additional information for error message 8055. **Impact:** None. **User Action:** Contact TimesTen Customer Support.
8093	The local replication agent needs to be running for this operation	The local replication agent must be started.
8094	Mutiple concurrent executions of this built-in are not permitted	Only one execution of the built-in is allowed at any time. Once the previous call returns, a new call may be made.
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, call the built-in procedure ttRepTransmitSet with argument 1.

Error number	Error or warning message	Details
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 call the built-in procedure ttRepTransmitSet with argument 1.
8097	Error getting parent table during autorefresh bookmark lookup	This is a runtime 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=1.
8100	Invalid parameter value passed in	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 database cannot be a MASTER or PROPAGATOR more than once for any elements with the same underlying database object. See "Defining replication elements" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8102	STORE *store_name* specified more than once	A database can be specified at most once in a STORE clause of a CREATE REPLICATION or ALTER REPLICATION statement. See "Setting STORE attributes in a classic replication scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 CREATE REPLICATION or ALTER REPLICATION statement. See "Setting STORE attributes in a classic replication scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 ALTER REPLICATION statement. For more information, see "ALTER REPLICATION" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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 database cannot subscribe to the same element for which it is either the MASTER or PROPAGATOR. For more information, see "Database names" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
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 *Oracle TimesTen In-Memory Database Replication Guide*.
8108	For TRANSMIT NONDURABLE, must use the ELEMENT <elementname> DATASTORE clause	Nondurable transmits require an ELEMENT DATASTORE clauses. See "Setting transmit durability on DATASTORE element" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 database. 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 or 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. 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	Failure resetting replication catchup status.	It occurs when you are trying to perform a duplicate operation from a node in an active standby database to another and the source node is not in the correct state. The duplicate operation fails. Try duplicating from the correct database, or setting the state of the source database.
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 database attribute can only be specified for database replication elements.

Error number	Error or warning message	Details
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`	**Type of Message:** Error **Cause:** You attempted to use an `ALTER ACTIVE STANDBY PAIR` or `DROP ACTIVE STANDBY PAIR` statement on a database without an active standby pair replication scheme. **Impact:** TimesTen cannot perform the operation. **User Action:** None. For more information on active standby pair replication schemes, see "Defining an Active Standby Pair Replication Scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8124	`Store DSN has been specified as an ACTIVE STANDBY PAIR node and a SUBSCRIBER`	**Type of Message:** Error **Cause:** You attempted to use a `CREATE ACTIVE STANDBY PAIR` statement while attempting to designate the specified database as both a master database and a subscriber database. **Impact:** TimesTen cannot create the active standby pair replication scheme. **User Action:** Define the specified database as a master database or a subscriber database, and retry the operation. For more information on `CREATE ACTIVE STANDBY PAIR`, see "CREATE ACTIVE STANDBY PAIR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
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 database 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 database cannot be in two active standby pairs. An attempt was made to create an active standby pair using a database 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 DSN is already in the ACTIVE STANDBY PAIR scheme.`	`ALTER ACTIVE STANDBY PAIR` attempts to add a database that is already in the active standby pair.

Error number	Error or warning message	Details
8129	Store *DSN*: The "*attribute_name*" attribute cannot be set for *DSN* 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 database resides. For example, CREATE ACTIVE STANDBY PAIR rep1, rep2 SUBSCRIBER rep3 must be run from the node on which rep1 or rep2 resides.
8131	*object_type owner.name* is already part of the replication scheme, or is in the process of being *process*	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	*clause element_name* cannot be used on TABLE element *element_name*. The operation is for DATASTORE level elements only	An attempt was made to include or exclude a table-level element.
8133	You cannot *clause* table *owner.name* because it is part of a cache group. Use *clause* CACHE GROUP instead.	An attempt was made to include or exclude a cache group table.
8134	Store *DSN* is not a MASTER for any element.	The ALTER ELEMENT statement did not find a matching element name in the database.
8135	*Object_type owner.name* is not part of DATASTORE element *element_name*, 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 *element_name*. 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 *object_type owner.name* because it is not in the Active Standby scheme.	An attempt was made to exclude a table or sequence from the databases 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 databases 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 database that was not in a standby state. The operation is only permitted on databases that are in the standby state.

Error number	Error or warning message	Details
8140	Scheme does not exist or inconsistency detected in the local ACTIVE STANDBY PAIR scheme	Error returned for an database with an inconsistent or corrupted active standby replication scheme.
8141	Local store not eligible to be set to the active state	Local database 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 database header for attributes related to the active standby replication scheme.
8143	The standby can only be duplicated from the active	A database that is in the standby state for an active standby pair can be duplicated only from the active database.
8144	Duplicate not permitted. Reason: *error*. 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	Subscriber databases in a active standby pair can be duplicated only from the standby database or from the active database when the standby database is in a failed state.
8145	The local store needs to be in the active state for this operation.	A database 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.

Error number	Error or warning message	Details
8150	This change is not allowed while the replication agent for data store *data_store_name* is running. Stop the replication agent to perform this change.	**Type of Message:** Error **Cause:** You attempted to use an ALTER REPLICATION statement that is not allowed while the replication agent for the database is running. **Impact:** TimesTen cannot perform the specified ALTER REPLICATION statement. **User Action:** Use the ttRepStop built-in procedure or the ttAdmin -repStop utility to stop the replication agent for the master and subscriber databases. Then, retry the ALTER REPLICAITON statement on both master and subscriber databases. You can restart the replication agent with the ttRepStart built-in procedure or the ttAdmin -repStart utility. For more information on replication scheme changes, see "Altering a Classic Replication Scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*. For more information on the ttRepStop built-in procedure, see "ttRepStop" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the ttAdmin utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
8151	*owner.name*'s replication role disallows the requested operation	Replication denies write access to a database object underlying a replication element for which it is a subscriber or propagator, provided that the local database is not the master for any other element with the same underlying database object.
8152	No ODBC type for column *owner.name.column*	The type for a column in a replicated table could not be mapped to a known ODBC data type. See "Data Types" in the *Oracle TimesTen In-Memory Database SQL Reference*.
8153	STORE *store_name* is already *role* of the specified ELEMENT(s)	It is permissible to use ALTER REPLICATION ALTER ELEMENT SET OWNER to reassign an element to its current owner (MASTER or PROPAGATOR). However, doing this evokes this warning.
8154	REPLICATION scheme *owner.name* already exists	The CREATE REPLICATION statement requires that each new replication scheme specified to a database have a different *owner.name* from any replication scheme already defined there.
8155	ELEMENT *element_name* already has SUBSCRIBER*subscriber_name*	A database can subscribe to a replication element only once. See "Defining replication elements" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
8156	Internal error: Column *column_name* for ELEMENT *element_name* already defined for SUBSCRIBER *subscriber_name*	**Type of Message:** Internal Error **Cause:** The replication agent attempted to re-add column information for a replicated table. Common causes for this are: - Table definitions are out of synchronization. - An ALTER TABLE statement was applied concurrently to both sides of the replication scheme. **Impact:** None. **User Action:** Check the specified table definitions on both sides of the replication scheme for the listed causes. For additional help, contact TimesTen Customer Support.
8157	No elements *element_name* found for REPLICATION *owner.name*	**Type of Message:** Error or Warning **Cause:** A replication element cannot be found for the requested operation. This is a warning when the request is for an indefinite number of elements (* IN *store_name*). It is an error when the statement specifies one particular element. **Impact:** None. **User Action:** Ensure that your REPLICATION statement contains a valid element name and a definite number of elements.
8158	Failed to retrieve LSN data for initializing PEER	A MASTER or PROPAGATOR database could not get its local LSN to initialize a (subscribing) peer database.
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 DROP REPLICATION request. However, doing this evokes this warning.
8160	REPLICATION *owner.name* not found	The local database does not know about the replication scheme specified in an ALTER REPLICATION or DROP REPLICATION request. (It is not registered in the TTREP.REPLICATIONS table.)
8161	No STORE *store_name* found for REPLICATION *owner.name*	Database was not found for the STORE specified in an ALTER REPLICATION ALTER STORE or DROP REPLICATION request.
8162	No subscriptions found for ELEMENT *element_name* in REPLICATION *owner.name*	No subscriptions could be found for an element in an ALTER REPLICATION DROP ELEMENT, ALTER REPLICATION ALTER ELEMENT DROP SUBSCRIPTION, ALTER REPLICATION ALTER ELEMENT SET OWNER or DROP REPLICATION request.
8163	Failed to retrieve table or column descriptor for table *owner.name*	While trying to create a replication element for CREATE REPLICATION or ALTER REPLICATION ADD ELEMENT, this information about the underlying table could not be retrieved.

Error number	Error or warning message	Details
8165	Replication schema is inconsistent	**Type of Message:** Internal Error **Cause:** The replication agent has detected an inconsistency in its schema. **Impact:** The replication schema may not work correctly. **User Action:** Contact TimesTen Customer Support.
8166	Log not writable 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 Customer Support.
8168	Cannot set system table attributes (e.g. REPACCESS) for *table* from replication role	Internal error. Contact TimesTen Customer Support.
8169	Store *transmitting_store* already transmits to store *receiving_store*; 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 "Defining replication elements" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8170	Receipt or commit acknowledgement not returned in the specified timeout interval for XID:*conn_id.counter*	A subscriber with RETURN RECEIPT or RETURN TWOSAFE service did not receive a commit acknowledgment within the current connection time limit. This can occur when the subscriber Replication Agent is not running or the standby replication state is set to STOPPED. For an active standby pair, this can occur when the standby replication agent is not running and the standby has not been declared as "failed" on the active. You can adjust the connection time limit with a call to ttRepSyncGet, as described in "Managing return service timeout errors and replication state changes" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8171	Illegal to replicate a system table (*owner.table*)	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* is already specified with an equivalent host name as *store_name*	Two different forms of host name were used to refer to one particular database in a replication scheme. The same form of host name must be consistently used to refer to any one database.

Error number	Error or warning message	Details
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 an 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 database replication because a replication scheme already exists that covers the entire database. Use DROP REPLICATION to drop the existing replication scheme and CREATE REPLICATION 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 database and the TRANSMIT NONDURABLE option is set. If needed, drop the replication scheme and use a CREATE REPLICATION 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 database. The NONDURABLE option must apply to the entire database. If needed, drop the replication scheme and use a CREATE REPLICATION statement to create a new replication scheme, using the ELEMENT DATASTORE clause with the TRANSMIT NONDURABLE option. See "Setting transmit durability on DATASTORE element" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8179	Cannot create dupicate store: store already exists	This error message indicates that the user is attempting to overwrite an existing database during an operation to duplicate databases.
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 database for replication, no other element type can be used either in the same scheme or in any other scheme. See "Defining the DATASTORE element" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 "Resolving Replication Conflicts" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8183	Cannot alter element because it is owned and managed by the system	ALTER REPLICATION cannot be run on elements created as part of the DATASTORE element configuration. ALTER REPLICATION must be run on the DATASTORE element itself.

Error number	Error or warning message	Details
8184	`Attempt to configure` *`replication_type`* `replication for a store with no permanent objects`	An attempt was made to configure database-level replication or active standby replication with an empty database.
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 "Configuring network interfaces when not using the ROUTE clause" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8191	`This store` *`store_name`* `on` *`host_name`* `not involved in a replication scheme`	The replication agent does not start if the database does not participate in any replication scheme. Either no replication scheme is defined on this database or the database is not part of any replication scheme.
		If a replication scheme is defined, verify that the name of each database involved in replication matches the names specified in the `DataStore` attribute in their respective DSN definitions. This name may be different from the names specified for the `Data Source Name` attribute in the DSNs.
		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 database hosts, as described in "Configuring network interfaces when not using the ROUTE clause" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
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. 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 "Starting and stopping the replication agents" in the *Oracle TimesTen In-Memory Database Replication Guide* 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. For more information, see "Return twosafe replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8194	The TWOSAFE subscriber attribute is not permitted on a propagator element.	Attempt to configure RETURN TWOSAFE for a propagator database. The RETURN TWOSAFE service can't be used in a propagation scheme. See "Return twosafe replication" in the *Oracle TimesTen In-Memory Database Replication Guide* 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 database. See "Return twosafe replication" in the *Oracle TimesTen In-Memory Database Replication Guide* 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 must 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 DROP TABLE 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 re-creating 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 re-creating the table.

Error number	Error or warning message	Details
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. For more information, see "System limits and defaults" in the *Oracle TimesTen In-Memory Database Reference*. Consider rebuilding the table, either using `INSERT...SELECT` or by using the `ttBulkCp` utility. For more information about the `INSERT...SELECT` SQL statement, see "INSERT...SELECT" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information about the `ttBulkCp` utility, see "ttBulkCp" in the *Oracle TimesTen In-Memory Database Reference*.
8206	`Invalid parameter value value passed in.`	Indicates that an invalid input parameter has been passed in to an active standby pair.
8207	`Illegal to replicate a system sequence (owner.sequence)`	Objects owned by `SYS` and `TTREP` are system objects. Users cannot perform operations on these items, including involving them in a replication scheme. Remove the sequence from your replication scheme.
8208	`Replication FailThreshold exceeded: failthreshold_config`	**Type of Message:** Error **Cause:** You are attempting to create an active standby pair replication scheme on a database that already contains AWT cache groups. There is an existing propagation backlog between TimesTen and the Oracle database for the AWT cache group(s) which is greater than the `FAILTHRESHOLD` parameter value you specified for the `CREATE ACTIVE STANDBY PAIR` command. **Impact:** TimesTen cannot create the active standby pair replication scheme. **User Action:** Wait for the existing propagation backlog to propagate from TimesTen to the Oracle database, then retry the `CREATE ACTIVE STANDBY PAIR` command. Alternatively, you can specify a higher `FAILTHRESHOLD` parameter value for the `CREATE ACTIVE STANDBY PAIR` command. For more information about the `CREATE ACTIVE STANDBY PAIR` command, see "CREATE ACTIVE STANDBY PAIR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
8209	`Cannot drop a primary key`	**Type of Message:** Error **Cause:** You attempted to drop a primary key. **Impact:** TimesTen cannot drop the primary key. **User Action:** None.

Error number	Error or warning message	Details
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 "Cache groups and cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8212	Multiple foreign keys 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 "Cache groups and cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8213	Cache group tables must have a primary key	All tables within a cache group must have a primary key. See "Cache groups and cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8214	Cache source *cache_name* is not supported	Cache group tables currently work only with Oracle database 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 READONLY and PROPAGATE. See "PROPAGATE cache table attribute" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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 "Cache groups and cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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 "Cache groups and cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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 "Cache groups and cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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 READONLY may not be updated.

Error number	Error or warning message	Details
8226	Column *column_name* is read only	Internal error. Contact TimesTen Customer Support.
8227	Cache group *cache_name* not found	The referenced cache group does not exist.
8228	Cannot drop cache group table *table_name*; pleaes use DROP CACHE GROUP instead	Tables within a cache group may not be explicitly dropped using the DROP TABLE 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 "Platforms and configurations" in the *Oracle TimesTen In-Memory Database Release Notes*.
8232	Oracle PassThrough not supported on this platform. PassThrough value must be set to 0	The PassThrough attribute is not supported on this platform. For a list of supported platforms, see "Platforms and configurations" in the *Oracle TimesTen In-Memory Database Release Notes*.
8233	PassThrough value must be between 0 and 5	Incorrect value for the PassThrough attribute. Reset to a value between 0 and 5, as described in "Setting a passthrough level" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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 reprepared. This error indicates that the application is trying to use an invalidated statement.The application must 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 LOAD CACHE GROUP or MERGE 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.
8238	Cannot truncate cache group table *table_name*; Use DROP/REFRESH/ UNLOAD CACHE GROUP instead.	A TRUNCATE statement is not allowed on a cache group table.

Error number	Error or warning message	Details
8239	PROPAGATE syntax can only be used once in statement	This is a syntax error for the CREATE CACHE GROUP statement. You specified a PROPAGATE or NOT PROPAGATE clause on a cache table that already has been specified as either PROPAGATE or NOT PROPAGATE. Check the syntax and remove the redundant or contradictory PROPAGATE or NOT PROPAGATE clause.
8240	READONLY syntax can only be used once in statement	This is a syntax error for the CREATE CACHE GROUP statement. You specified the READONLY keyword twice for the same cached table. Remove one of the instances of READONLY.
8242	Index on *column_name* column not supported	You cannot create an index on column *column_name* because it is a system-created column.
8243	Invalid AUTOREFRESH interval value	The specified AUTOREFRESH INTERVAL is invalid. It must 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 ttCacheSqlGet 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 must 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, *table_name*, cannot be specified as both READONLY and NOT PROPAGATE. This error can occur if you try to create a READONLY cache group that contains a table that is specified as NOT PROPAGATE.
8253	Table *table_name* cannot have same name as an existing cache group or the cache group containing this table	Cache groups and tables cannot have the same name. You 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 CREATE CACHE GROUP/TABLE statement.

Error number	Error or warning message	Details
8254	Flush fails; all tables are either propagated or read only	This error occurs if you use `FLUSH CACHE GROUP` on a cache group where all of its tables are configured with `PROPAGATE` or `READONLY` and therefore not flushable. You can flush a table that is marked `PROPAGATE` by using the `ttCachePropagateFlagSet` built-in procedure.
8255	Attempt to bi-directionally propagate multiple copies of cache group *cache_group*	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. TimesTen Cache has this restriction to avoid update conflict anomalies. To correct the error, choose a different name for one of the cache group. In very rare instances, TimesTen Cache falsely reports this error. The most likely cause is that there are some residual Oracle database objects that were created by the TimesTen Cache but were not dropped when the cache group was dropped or the cache agent was shutdown. For more information on the Oracle database objects created by TimesTen Cache, see "Managing a caching environment with Oracle Database objects" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8256	Illegal subquery used in create cache group table WHERE clause	Sub-queries are not allowed in the `WHERE` clause of the `CREATE CACHE GROUP` statement. To correct the error, remove the subquery. For more information, see "Using a WHERE clause" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8257	Parameters are not supported in Oracle WHERE clauses	Parameter binding ("?") is not allowed in the `WHERE` clause of `LOAD CACHE GROUP` and `MERGE` statements. Use SQL literals instead. For more information, see "Using a WHERE clause" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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 "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
8260	Join predicate does not match	The root/child tables in one cache group are not 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 "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 database. These two TimesTen features cannot be used at the same time.
		The XA and JTA APIs described in the TimesTen developer guides are not supported in cache groups. See "Summary of compatibility issues" in *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8262	A READONLY or WRITETHROUGH cache group can only replicate to a cache group of the same type	Attempted to replicate a read-only or writethrough cache group to a database 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 READONLY. For more information, see "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8263	If a replicating cache group has AUTOREFRESH specified than the remote cache group must also specify AUTOREFRESH	Replicated cache groups must both have AUTOREFRESH set, though the subscriber must have the AUTOREFRESH STATE OFF.
		See "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8264	Transaction commit/rollback succeeded on Oracle but failed on TimesTen	Updates were successfully propagated to the Oracle database but failed on TimesTen. If a commit or rollback succeeds on the Oracle database but fails on TimesTen, the data in the TimesTen cache group may no longer be synchronized with the data in the Oracle database. After clearing up the cause of the TimesTen failure, it may be necessary to re-apply the failing transaction in TimesTen.
		For more information about propagation, see "PROPAGATE cache table attribute" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.

Error number	Error or warning message	Details
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	You cannot specify AUTOREFRESH with propagation disabled (NOT PROPAGATE). A cache group that is using AUTOREFRESH must be marked either PROPAGATE or READONLY. By default, cache tables are marked NOT PROPAGATE. If the cache group is not READONLY, you must explicitly mark each table either PROPAGATE or READONLY. This is to avoid overwriting changes during the next C operation.
		For more information about propagation, see "PROPAGATE cache table attribute" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information about AUTOREFRESH cache groups, see "AUTOREFRESH cache group attribute" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8268	Asynchronous or Synchronous Writethrough cache group cannot have a WHERE clause	The CREATE SYNCHRONOUS WRITETHROUGH CACHE GROUP statement or the CREATE ASYNCHRONOUS WRITETHROUGH CACHE GROUP specifies a WHERE clause on at least one of its tables, which is not allowed. This is a compile time error message.
		See "Cache group types" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* 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 READONLY and PROPAGATE attributes cannot be used in system-managed cache groups. This is a compile time error.
		See "Cache group types" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
8271	Manual LOAD/UNLOAD/REFRESH/FLUSH operations are not allowed on cache group *cache_name* because it is system managed	The LOAD CACHE GROUP, UNLOAD CACHE GROUP, MERGE, and FLUSH CACHE GROUP statements cannot be used on system-managed cache groups. This is a runtime error.
		See "Cache group types" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
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.

Error number	Error or warning message	Details
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 user managed cache group that is specified as both AUTOREFRESH and PROPAGATE, 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 ALTER CACHE GROUP and set AUTOREFRESH STATE OFF on the cache group that currently has AUTOREFRESH on or paused. See "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8275	Manual LOAD/UNLOAD/REFRESH/FLUSH operations are not allowed on cache group *cache_group_name* because it uses AUTOREFRESH	The manual LOAD CACHE GROUP, UNLOAD CACHE GROUP or FLUSH CACHE GROUP statement failed because the cache group is specified with AUTOREFRESH. This is not allowed.
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 "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
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 PROPAGATE not specified to a cache group with PROPAGATE specified. For details on how to replicate cache groups, "Replicating cache tables" in the *Oracle TimesTen Application-Tier Database Cache User's Guide* and "Cache groups and replication" in the *Oracle TimesTen In-Memory Database Replication Guide*.
8287	Manual LOAD/REFRESH operations with WHERE or WITHID clauses are not allowed on cache group *cache_group_name* because it is specified as AUTOREFRESH	Issued during a LOAD or REFRESH cache group operation on an autorefresh cache group. A LOAD or REFRESH operation cannot have a WHERE clause or WITH ID clause for an autorefresh cache group.
8288	Manual LOAD of cache group *cache_group_name* is not allowed because it is specified as AUTOREFRESH and it is not empty	This error is issued during a LOAD CACHE GROUP operation on an AUTOREFRESH cache group. A LOAD CACHE GROUP operation cannot be performed on a non-empty AUTOREFRESH cache group. REFRESH cache group can be used instead.

Error number	Error or warning message	Details
8289	Manual LOAD/REFRESH of cache group requires AUTOREFRESH STATE to be PAUSED, but the STATE of *cache_group_name* is *state*. The LOAD is not allowed.	This error is issued during a LOAD or REFRESH CACHE GROUP operation on an AUTOREFRESH cache group. AUTOREFRESH STATE must be PAUSED when issuing LOAD or REFRESH cache group statements.
8290	Manual LOAD/REFRESH must have COMMIT EVERY N ROWS clause	This error is issued during a LOAD or REFRESH CACHE GROUP operation. To solve this problem, specify a COMMIT EVERY N ROWS clause in the statement.
8291	Manual LOAD/REFRESH/UNLOAD WITH ID statement cannot have the COMMIT EVERY N ROWS clause	This error is issued during a LOAD or REFRESH CACHE GROUP operation. A COMMIT EVERY N ROWS clause cannot be specified when a WHERE or WITH ID clause is used.
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, TimesTen Cache may not cache the result rows as specified by the cache group WHERE clause.
8293	Autorefresh interval should be at least *num* milliseconds	The AUTOREFRESH interval should be at least *num* milliseconds. Currently the minimum number of milliseconds allowed for the AUTOREFRESH interval 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	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. You can use SQL*Plus to connect to the Oracle database and issue the following query to check the database national character set: SELECT VALUE FROM v$nls_parameters WHERE PARAMETER = 'NLS_NCHAR_ CHARACTERSET';
8296	TimesTen and Oracle database character sets do not match. TimesTen: *database_character_set*, Oracle: *database_character_ set*	TimesTen databases that use cache groups or provide passthrough must have the same database character set as the Oracle database. The DatabaseCharacterSet of the database cannot be changed after creation.
8297	The session parameter *parameter* cannot be altered through a PassThrough statement	TimesTen does not support passthrough execution of the indicated *parameter* in a SQL ALTER SESSION SET statement.

Error number	Error or warning message	Details
8298	Table in autorefresh cache group cannot have more than *num* columns	The maximum number of columns in an autorefresh cache group table 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 databases that are used with cache groups.
8302	Autorefresh state of cahe group *cache_group_name* is off	The AUTOREFRESH state for the cache group is OFF. To perform AUTOREFRESH operations, set the state to ON.
8303	Sequence number must be non-negative and end sequence must be greater than or equal to start sequence	A sequence number must be positive and must be greater than or equal to the first number in the sequence.
8304	Manual REFRESH operation with WHERE clause is not allowed on cache group *cahegroup_name* because it is specified as dynamic AUTOREFRESH	Refresh operations are automated on the dynamic autorefresh cache group. You have attempted to perform a manual refresh operation. It is not supported.
8305	Manual LOAD/REFRESH on cache group failed because dynamic counter update failed.	Manual load or refresh of a dynamic cache group failed because of the failure in updating the internal dynamic counter. This could be because of another operation holding a lock on the row for this cache group in the SYS.CACHE_GROUP table.
8306	A cache group cannot be created as dynamic if it is defined as both autorefresh and propagate	A dynamic user managed cache group cannot use both the autorefresh cache group attribute and the PROPAGATE cache table attribute.
8307	Autorefresh interval cannot exceed 99 days	Create the cache group with an AUTOREFRESH interval less than or equal to 99 days.
8308	All replicated autorefresh cache groups should have autorefresh state PAUSED before calling ttRepDeactivate.	This error can occur when a user calls the built-in ttRepDeactivate. The error is triggered when there are some replicated autorefresh cache groups where state is ON and the cache agent is running. Alter the replicated autorefresh cache groups on the active node (to be deactivated) to the PAUSED state.
8309	Manual REFRESH with PARALLEL clause is not allowed for dynamic readonly cache groups.	You attempted to use the REFRESH CACHE GROUP statement with the PARALLEL clause for a dynamic read-only cache group. This is not allowed.
8311	To set the number of parallel AWT applier threads, ReplicationParallelism must be set to > 0	You cannot configure CacheAWTParallelism to be greater than 1 if ReplicationParallelism is 0.

Error number	Error or warning message	Details
8312	CacheAWTParallelism value of *cache_value* must be greater than or equal to ReplicationParallelism value of *replication_value*	CacheAWTParallelism must always be greater than or equal to ReplicationParallelism.
8313	Cannot use parallel replication or parallel AWT with SMPOptLevel=0	Parallel Replication or Parallel AWT cannot be configured for a database with SMPOptLevel set to 0.
8314	ReplicationParallelism cannot be greater than 1 with ReplicationApplyOrdering set to 0	You cannot set ReplicationParallelism to a greater than 1 value when ReplicationApplyOrdering is set to 0.
8315	Timeout in commit wait for parallel AWT thread	The parallel AWT applier thread timed out waiting for a dependent AWT applier to commit.
8316	Creation of AWT cache groups is disabled with ReplicationApplyOrdering set to 1	You attempted to create an AWT cache group when ReplicationApplyOrdering is set to 1. This is not supported.
8318	Dynamic read-only cache groups do not use the Autorefresh Select Every N Rows feature	**Type of Message:** Warning **Cause:** You attempted to create a dynamic read-only cache group but the specified interval uses the Autorefresh Select Every N Rows feature. **Impact:** The cache group is created but it does not use the Autorefresh Select Every N Rows feature. **User Action:** None.
8319	The Autorefresh Select Every N Rows feature does not allow more than one table per cache group	**Type of Message:** Error **Cause:** You attempted to create a cache group that references more than one table and has an interval that uses the Autorefresh Select Every N Rows feature. **Impact:** The cache group cannot be created. **User Action:** Ensure that there is only a single table in the cache group or disable the Autorefresh Select Every N Rows feature for the specified interval.
8320	The Autorefresh Select Every N Rows feature does not allow more than one static read-only cache group per interval	**Type of Message:** Error **Cause:** You attempted to create a second cache group in an interval that uses the Autorefresh Select Every N Rows feature. **Impact:** The cache group cannot be created. **User Action:** Ensure that there is no other cache group in the same interval or disable the Autorefresh Select Every N Rows feature for the specified interval.

Error number	Error or warning message	Details
8321	The Autorefresh Select Every N Rows feature does not allow user managed cache groups	**Type of Message:** Error **Cause:** You attempted to create a user managed cache group in an interval that uses the Autorefresh Select Every N Rows feature. **Impact:** The user managed cache group cannot be created. **User Action:** Consider using a different type of cache group or disable the Autorefresh Select Every N Rows feature for the specified interval.
8322	To set the batch size for parallel propagation for AWT cache groups (CacheParAwtBatchSize), you must set either ReplicationParallelism or CacheAwtParallelism greater than zero	**Type of Message:** Error **Cause:** You attempted to configure the CacheParAWTBatchSize parameter, but parallel propagation is not enable for the AWT cache groups. **Impact:** The CacheParAWTBatchSize parameter is not modified. **User Action:** Enable parallel propagation for AWT cache groups before attempting to configure the CacheParAWTBatchSize parameter. To enable parallel propagation set the ReplicationParallelism or CacheAWTParallelism connection attribute to a value greater than zero. These connection attributes cannot be modified once the database is created. To set these connection attributes, follow these steps: 1. Create a migrate object of your TimesTen database with the ttMigrate -c utility. For more information, see "ttMigrate" in the *Oracle TimesTen In-Memory Database Reference*. 2. Destroy your database with the ttDestroy utility. For more information, see "ttDestroy" in the *Oracle TimesTen In-Memory Database Reference*. 3. Recreate the TimesTen database and set the ReplicationParallelism or CacheAWTParallelism connection attribute to a value greater than zero. For more information, see "Managing TimesTen Databases" in the *Oracle TimesTen In-Memory Database Operations Guide*. 4. Restore the migrate object into the new TimesTen database with the ttMigrate -r utility. For more information, see "ttMigrate" in the *Oracle TimesTen In-Memory Database Reference*. 5. Rely setting the CacheParAWTBatchSize parameter with the ttDBConfig built-in procedure. For more information, see "ttDBConfig" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
8323	Autorefresh for interval *interval* will use Select Every *num_of_rows* Rows	**Type of Message:** Informational **Cause:** TimesTen is starting autorefresh for the specified interval. The specified interval uses the autorefresh select every n rows feature. **Impact:** The autorefresh thread for the specified interval will select the specified number of rows from the Oracle database change log table. **User Action:** None.
8324	Creation of AWT cache groups is disabled with ReplicationApplyOrdering set to 2	**Type of Message:** Error **Cause:** You attempted to create an asynchronous writethrough (AWT) cache group in a replication scheme using automatic replication with disabled commit ordering (ReplicationApplyOrdering=2). **Impact:** TimesTen cannot perform the operation. **User Action:** Set the ReplicationApplyOrdering attribute to 0 or 1 and retry the operation. For more information on AWT cache groups, see "Asynchronous writethrough (AWT) cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on parallel replication and the ReplicationApplyOrdering attribute, see "Configuring parallel replication" in the *Oracle TimesTen In-Memory Database Replication Guide* and "ReplicationApplyOrdering" in the *Oracle TimesTen In-Memory Database Reference*.
8400	System catalog creation failed: *failure_message*	When a TimesTen database is created, a number of predefined tables and views are defined in the new database. An error occurred in the process of defining these objects. Review the included message, make suggested corrections and attempt database creation again.

Error number	Error or warning message	Details
8500	PL/SQL feature not installed in this TimesTen instance	**Type of Message:** Error
		Cause: You attempted to use a PL/SQL feature, but PL/SQL is disabled in the TimesTen instance.
		Impact: TimesTen cannot perform the operation.
		User Action: Try one of the following actions:
		- Enable PL/SQL using the ttmodinstall utility. Then, retry the operation. For more information, see "ttmodinstall" in the *Oracle TimesTen In-Memory Database Reference*.
		- Reinstall TimesTen and enable PL/SQL at install time. Then, retry the operation. For more information, see "TimesTen Installation" in the *Oracle TimesTen In-Memory Database Installation Guide*.
8501	PL/SQL feature not installed in this TimesTen database	**Type of Message:** Error
		Cause: You specified PL/SQL=1 as a connection attribute, but PL/SQL is not enabled for the TimesTen database.
		Impact: TimesTen cannot perform the operation.
		User Action: Try one of the following actions:
		- Specify PL/SQL=0 as a connection attribute. Then, retry the operation. For more information, see "PL/SQL connection attributes" in the *Oracle TimesTen In-Memory Database PL/SQL Developer's Guide*.
		- Reinstall TimesTen and enable PL/SQL at install time. Then, retry the operation. For more information, see "TimesTen Installation" in the *Oracle TimesTen In-Memory Database Installation Guide*.
8502	Error *error_number* initializing PLSQL_MEMORY *string*	**Type of Message:** Internal Error
		Cause: A problem occurred while loading the database into memory. This problem should not have occurred.
		Impact: The database is not loaded into memory. The application is not connected to the database.
		User Action: Contact TimesTen Customer Support.

Error number	Error or warning message	Details
8503	*Error_text*	**Type of Message:** Error
		Cause: The PL/SQL compiler detected an error from the Oracle database while compiling the program block you submitted.
		Impact: The PL/SQL compiler cannot compile the program block you submitted.
		User Action: Review the referenced ORA error number from the Oracle database error documentation and correct your application code. In general, diagnosis is the same for PL/SQL in TimesTen and for PL/SQL in the Oracle database, though there are known differences between PL/SQL in these two environments. Then, retry the operation. For more information, see the *Oracle Database Error Messages*.
8504	PL/SQL *object_type* *object* created with compilation warnings	**Type of Message:** Warning
		Cause: During compilation, one or more PL/SQL units generated compiler warnings.
		Impact: The compiled PL/SQL unit or units may not work correctly.
		User Action: Examine the warnings and correct your application. You can use the show errors command of `ttIsql` utility to view the generated warnings. For more information, see "ttIsql" in the *Oracle TimesTen In-Memory Database Reference*.
8505	PL/SQL *object_type* *object* created with compilation errors	**Type of Message:** Error
		Cause: You specified a PL/SQL program unit that contains errors.
		Impact: TimesTen cannot execute the PL/SQL program unit.
		User Action: Review and correct the application errors. Then, retry the operation.
8506	*error_text*	**Type of Message:** Internal Error
		Cause: The main causes for this error are:
		- An attempted operation, such as `COMMIT`, `ROLLBACK`, or other DDL statement, cannot proceed because of a conflict with an existing PL/SQL object.
		- An unexpected error occurred while attempting to manage memory or locks in the PL/SQL memory area.
		Impact: TimesTen cannot perform the operation.
		User Action: Contact TimesTen Customer Support.

Error number	Error or warning message	Details
8507	*error_text*	**Type of Message:** Error **Cause:** The execution of a PL/SQL program unit encountered an error from the Oracle database. **Impact:** TimesTen cannot finish executing the PL/SQL program unit. **User Action:** Review the referenced ORA error number from the Oracle database error documentation and correct your application code. In general, diagnosis is the same for PL/SQL in TimesTen and for PL/SQL in the Oracle database, though there are known differences between PL/SQL in these two environments. Then, retry the operation. For more information, see the *Oracle Database Error Messages*.
8508	Question mark parameter markers are not allowed in PL/SQL blocks	**Type of Message:** Error **Cause:** You provided a question mark as a parameter marker in a PL/SQL program unit. **Impact:** TimesTen cannot execute the PL/SQL program unit. Parameter marker names beginning with _QMARK_ are reserved for system use. **User Action:** Specify a valid parameter marker, using the :var notation for bind variables. Then, retry the operation. For more information, see "Using bind variables from an application" in the *Oracle TimesTen In-Memory Database PL/SQL Developer's Guide*.
8509	PL/SQL execution terminated; PLSQL_TIMEOUT exceeded	**Type of Message:** Error **Cause:** A PL/SQL program unit exceeded the maximum time specified in the PLSQL_TIMEOUT attribute. **Impact:** TimesTen terminated the execution of the PL/SQL program unit. **User Action:** Examine if the program unit contains loops or never-ending execution. If the PL/SQL program unit is running but needs more time to complete, increase the PLSQL_TIMEOUT attribute value. Then, retry the operation. For more information, see "PL/SQL connection attributes" in the *Oracle TimesTen In-Memory Database PL/SQL Developer's Guide*.

Error number	Error or warning message	Details
8510	Error loading PL/SQL system package file *file_name*: *error_message*	**Type of Message:** Internal Error **Cause:** You attempted to create a new TimesTen database. When a TimesTen database is created, a number of predefined PL/SQL packages are defined in the new database. An error occurred during this process. **Impact:** TimesTen cannot create the database. **User Action:** Contact TimesTen Customer Support.
8511	PL/SQL can only be enabled during database creation or at first connect	You attempted to enable PL/SQL on an existing database. You can only enable PL/SQL at the time that you create a database.
8512	PL/SQL is not supported with exclusive mode data store access	PL/SQL is not supported with databases that are created with exclusive access. Exclusive access is a deprecated feature.
8513	PL/SQL is not supported in non-thread-safe mode	PL/SQL is not supported with databases that are created without thread safety. Non thread-safe mode is a deprecated feature.
8514	Invalid PL/SQL compiler parameter *parameter_name*	Only persistent parameters are allowed. The PL/SQL persistent parameters are PLSQL_OPTIMIZE_LEVEL, PLSQL_CODE_TYPE, PLSQL_DEBUG, PLSQL_WARNINGS, PLSQL_CCFLAGS and NLS_LENGTH_SEMANTICS. You supplied a parameter other than one of these.
8515	Duplicate setting for PL/SQL compiler parameter *parameter_name*	You can specify each parameter only once in each statement. See the Oracle database documentation for complete compiler parameters clause information.
8517	Cannot attach PL/SQL shared memory; PLSQL_MEMORY_ADDRESS not valid or already in use	The virtual memory address specified by PLSQL_MEMORY_ADDRESS is in use. Specify a virtual address that is free in all processes that can connect to the database.
8518	The preceding error occurred during the execution of an internal SQL statement	Warning message.
8519	Invalid PLSQL_MEMORY_ADDRESS specified	An illegal value (for example, 0) was specified for PLSQL_MEMORY_ADDRESS.
8521	Cannot attached PL/SQL shared memory; virtual memory at PLSQL_MEMORY_ADDRESS already in use by TimesTen.	Your application has connected to two different TimesTen databases that use the same PLSQL_MEMORY_ADDRESS value. Specify a different PLSQL_MEMORY_ADDRESS value for one of the databases.For more information about the PLSQL_MEMORY_ADDRESS, see "PLSQL_MEMORY_ADDRESS" in the *Oracle TimesTen In-Memory Database Reference*.
8522	PLSQL_MEMORY_SIZE too small.	For more information about the appropriate memory size for your operating system, see "PLSQL_MEMORY_SIZE" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
8523	No data found.	No rows were found when the user executed a SELECT statement inside PL/SQL.

Errors 9000 - 9999

Error number	Error warning message	Details
9991	Invalidation of data store in progress	An application attempted to connect to a database while it was being invalidated. Wait and retry the operation.
9992	Daemon reports error *error* (*error*)	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 database from RAM or in the middle of final checkpoint. The amount of time this takes depends on the number of changed pages in the database.
9994	Loading data store from disk into RAM in progress	Loading the database from disk into RAM. The amount of time this takes depends on the size of the database and the number of inserts, updates, or view creations that have occurred since the last checkpoint.
9995	Process recovery in progress: rolling back transaction of failed process	Process recovery running on this database. Rolling back transactions. The amount of time this takes depends on the number of inserts, updates, or view creations caused by the failing transaction.
9996	Process recovery in progress: examing health of in-RAM data store	Process recovery running on this database. Checking the state of the database. This can take anywhere from several seconds to 15 minutes, depending on the precise state of the database when the application failed or terminated. In general, you can expect it to take between 5-6 minutes to recover a database.
9998	Cannot perform requested operation because TimesTen service is being quiesced	An attempt was made to connect to or destroy a database while the TimesTen daemon was shutting down. Wait for the TimesTen daemon to start again.
9999	Subdaemon exited unexpectedly	**Type of Message:** Internal Error **Cause:** An internal error occurred in the TimesTen subdaemon during a connection attempt. **Impact:** The database is unloaded from memory. **User Action:** Try reconnecting to the database. If you still receive this error, contact TimesTen Customer Support.

Errors 10000 - 10999

Error number	Error or warning message	Details
10002	`No record of a data store located in 'location'`	Warning: When creating a database, the daemon found files whose names look like names of checkpoint or transaction log files for the database. Since it is a new database, 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 database files from a previous version of TimesTen exist where the TimesTen daemon is attempting to put the new files.
10003	`Unexpected data store file exists for new data store: description.`	When connecting to a database, checkpoint, or transaction log files exist which are incompatible or should not exist. The `description` field gives more information. You can destroy the existing database and replace it with a new one by specifying `Overwrite=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 `ttStatus` 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 database 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 Customer Support.
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 database into RAM, the database has been deleted.
10009	`RAM load ignored due to ramPolicy setting`	**Type of Message:** Error **Cause:** You attempted to load a database into memory when the RAM policy for the database is not set to `manual`. **Impact:** TimesTen cannot perform the operation. **User Action:** Use the `ttAdmin -ramPolicy` utility to change the RAM policy of the database to `manual` and retry the operation. For more information on the `ttAdmin` utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
10010	RAM unload ignored due to ramPolicy setting	**Type of Message:** Error **Cause:** You attempted to unload a database from memory when the RAM policy for the database is not set to `manual`. **Impact:** TimesTen cannot perform the operation. **User Action:** Use the `ttAdmin -ramPolicy` utility to change the RAM policy of the database to `manual` and retry the operation. For more information on the `ttAdmin` utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
10011	Data store is currently not being managed	**Type of Message:** Error **Cause:** There are two possible causes for this error message. a) A process has attempted to unload a database from RAM, but there is no TimesTen subdaemon currently managing the database. b) You are attempting to perform an operation on a database that is not loaded. The operation you are trying to perform requires authentication and you are not connecting as the instance administrator. **Impact:** Depending on the cause, the impact is either of the following. a) You cannot run `ttAdmin -ramUnload` on a database that is not loaded. b) Your user information cannot be verified because no subdaemon is connected to the database **User Action:** Depending of the cause, you should do either of the following. a) Do not run `ttAdmin -ramUnload` on a database that is not loaded. For more information, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*. b) Connect as the instance administrator or load the database and then connect as another user.
10012	Replication Agent was not started due to repPolicy setting	An attempt has been made to start a replication agent for a database, but the replication policy for the database is "always," which means the TimesTen daemon automatically starts or restarts the replication agent. Use `ttAdmin -repPolicy` to change the replication policy to "manual" to manually control whether the replication agent is active. See "Starting and stopping the replication agents" in the *Oracle TimesTen In-Memory Database Replication Guide* for details.

Error number	Error or warning message	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. Refer to user error log for further information`	The TimesTen daemon could not spawn a replication agent. Ensure that you are not out of memory or process table space.
10015	`Could not stop Replication Agent for the requested data store. Refer to user error log for further information`	An attempt to stop the replication agent failed. Ensure that the database 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 database, but the replication policy is set to "always." See "Starting and stopping the replication agents" in the *Oracle TimesTen In-Memory Database Replication Guide* for information on setting the replication policy.
10017	`OracleNetServiceName not set`	An attempt was made to start the cache agent for a database, but the `OracleNetServiceName` connection string value was not set. Ensure that the `OracleNetServiceName` attribute is correctly defined in the DSN.
10018	`ORACLE_HOME not set`	An attempt was made to start the cache agent for a database, but `ORACLE_HOME` was not set in the user environment. Ensure that the `ORACLE_HOME` environment variable is set properly, as described in "Environment variables" in the *Oracle TimesTen In-Memory Database Installation Guide*.
10019	`ORACLE_HOME path too long`	The value of the `ORACLE_HOME` environment variable is too long. Ensure that it is set correctly, and use symbolic links if necessary. See "Environment variables" in the *Oracle TimesTen In-Memory Database Installation Guide*.
10020	`Could not stop cache agent for the requested data store. Refer to user error log for further information`	An attempt to stop the cache agent failed. Use ttStatus to ensure that the database still exists and the cache agent is still running.

Error number	Error or warning message	Details
10021	Cache agent was not stopped due to cache agent policy setting	**Type of Message:** Error or Warning **Cause:** An attempt has been made to stop a cache agent for a database, but the cache agent policy for the database is "always," which means the TimesTen daemon automatically starts or restarts the cache agent. **Impact:** None. **User Action:** Use `ttAdmin -cachePolicy` to change the cache agent policy to "manual" to manually control whether the cache agent is active. For more information, see "Set a cache agent start policy" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
10022	Failed to set ORACLE_HOME	The TimesTen daemon was unable to set the `ORACLE_HOME` environment variable. Ensure that you are not out of memory. See "Environment variables" in the *Oracle TimesTen In-Memory Database Installation Guide* 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. Ensure that you are not out of memory. See "Shared library path environment variable" in the *Oracle TimesTen In-Memory Database Installation Guide* for information on setting `LD_LIBRARY_PATH`.
10024	Could not start Cache Agent for the requested data store	A 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. Ensure that 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 database 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.
10028	Attempted stop of TimesTen daemon while being managed by Clusterware	If a TimesTen installation is managed by Oracle Clusterware and the user attempts to gracefully stop the daemon directly using `ttDaemonAdmin -stop`, the daemon refuses to stop. The user can only stop the daemon if the Cluster agent and the daemon monitor are first stopped with `ttCWAdmin -shutdown -hosts localhost`.

Errors 11000 - 11999

Error number	Error or warning message	Details
11000	XA internal error	An unexpected XA-specific internal error has occurred. Contact TimesTen Customer Support.
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. Typically, this error is 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 database. 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 database.
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	Transation 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 "Distributed Transaction Processing: XA" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.

Error number	Error or warning message	Details
11031	Illegal combination of local transaction and global (XA) transaction	Use of `SQLTransact` to commit an XA transaction is not allowed. XA transactions may only be committed through the use of `xa_commit`. See "Distributed Transaction Processing: XA" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
11035	In-doubt transactions awaiting resolution in recovery must be resolved first	Due to recovery of in-doubt transactions, normal operation of the database has been suspended. Normal operation resumes 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	TimesTen Cache is not supported with XA transactions.
11038	XA transaction cannot be reconstructed because begin record (*txn_file_number*. *txn_file_offset*) not found	A transaction log record needed to recover an XA transaction could not be found in the existing transaction log files. Contact TimesTen Customer Support.
11039	XA reconstruct of xcb *xcb*/*xcb* failed	Recovery of an XA transaction failed due to an Internal error. Contact TimesTen Customer Support.
11040	DDL statementes are not allowed in XA transactions when DDLCommitBehavior is set to 0	XA transactions require explicit commits after DDL statements. Set the `DDLCommitBehavior` attribute to 1, if your application uses XA.

Errors 12000 - 13999

Error number	Error or warning message	Details
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 odbc.ini file not found	UNIX only. TimesTen could not locate the user or system `odbc.ini` file. The search order for locating an `odbc.ini` file is: ■ The file pointed to by the `ODBCINI` environment variable, if set ■ `$HOME/.odbc.ini` ■ The `odbc.ini` file located in the user's home directory ■ The file pointed to by the `SYSODBCINI` environment variable, if set ■ `/var/TimesTen/instance/ sys.odbc.ini` See "ODBCINI environment variable" in the *Oracle TimesTen In-Memory Database Installation Guide* for more information.

Error number	Error or warning message	Details
12003	Cannot open user/system odbc.ini file	UNIX only. TimesTen could not open either the user or system odbc.ini file.
12004	Syntax error in odbc.ini 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 *attribute_name=value* 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 *attribute_name=value* 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 *attribute_name=value* 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 zero length, or a client DSN was used	The specified database name is either NULL or an empty string. You must specify a valid database name.
12014	Internal error in TimesTen utility library. Could not get current context	Internal error. Contact TimesTen Customer Support.
12015	Internal error in TimesTen utility library. Could not set current context	Internal error. Contact TimesTen Customer Support.
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 SQLAllocEnv function failed.

Error number	Error or warning message	Details
12018	Failed to allocate connection handle	A call to the ODBC SQLAllocConnect function failed.
12019	Failed to locate data store files	TimesTen cannot determine the path and names of the database files for the specified database.
12020	Failed to connect to data store	A call to the ODBC SQLDriverConnect function failed to connect to the database using the specified connection string.
12021	Failed to disconnect from data store	A call to the ODBC SQLDisconnect function failed.
12022	Failed to free connection handle	A call to the ODBC SQLFreeConnect function failed.
12023	Failed to free environment handle	A call to the ODBC SQLFreeEnv function failed.
12024	Data store already loaded into RAM and being managed	**Type of Message:** Error **Cause:** You attempted to load a database into memory that is already loaded into memory. **Impact:** TimesTen cannot perform the operation. **User Action:** None. For more information on the -ramLoad option of the ttAdmin utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
12025	Data store already manually unloaded from RAM	**Type of Message:** Error **Cause:** You attempted to unload a database from memory that has already been manually unloaded from memory. **Impact:** TimesTen cannot perform the operation. **User Action:** None. For more information on the -ramUnload option of the ttAdmin utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
12026	The agent is already running for the data store	**Type of Message:** Error **Cause:** You attempted to start the cache agent or replication agent for the database when the agent is already running. **Impact:** TimesTen cannot perform the operation. **User Action:** None. For more information on the -cacheStart or -repStart option of the ttAdmin utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the ttCacheStart built-in procedure, see "ttCacheStart" in the *Oracle TimesTen In-Memory Database Reference*. For information on the ttRepStart built-in procedure, see "ttRepStart" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
12027	The agent is already stopped for the data store	**Type of Message:** Error
		Cause: You attempted to stop the cache agent or replication agent for the database when the agent is not running.
		Impact: TimesTen cannot perform the operation.
		User Action: None. For more information on the `-cacheStop` or `-repStop` option of the `ttAdmin` utility, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttCacheStop` built-in procedure, see "ttCacheStop" in the *Oracle TimesTen In-Memory Database Reference*. For more information on the `ttRepStop` built-in procedure, see "ttRepStop" in the *Oracle TimesTen In-Memory Database Reference*.
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 database does not exist in the location specified by the `DataStore` attribute of the DSN.
12030	Data store is in use	**Type of Message:** Error
		Cause: You attempted to unload a database from memory that is in use or has an active connection.
		Impact: TimesTen cannot perform the operation.
		User Action: To unload the database from memory, you must close all active connections to the database and set the RAM policy of the database to `manual` or `inUse`. For more information, see "Unloading the database from memory" in the *Oracle TimesTen In-Memory Database Operations Guide*.
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	**Type of Message:** Error
		Cause: You attempted to set a RAM policy for a temporary database.
		Impact: TimesTen cannot perform the operation. RAM policy can only be set for permanent databases.
		User Action: Ensure that the `Temporary` attribute is set to `0` and retry the operation. For more information on temporary databases, see "Database persistence" in the *Oracle TimesTen In-Memory Database Operations Guide*. For more information on the `Temporary` attribute, see "Temporary" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
12035	Could not initialize winsock	Windows only. A call to WSAStartup failed.
12036	No winsock.dll (that supports version 1.1.) found	Windows only. A call to WSAStartup could not locate a winsock.dll that supports version 1.1.
12037	Could not terminate winsock	Windows only. A call to WSACleanup failed.
12038	Could not connect to TimesTen daemon on remote host *host_name*	Ensure 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	Ensure that the TimesTen replication agent for the specified database is running on the remote host.
12040	Could not connect to TimesTen replication agent on remote host	Internal error. Contact TimesTen Customer Support.
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 "Configuring network interfaces when not using the ROUTE clause" in the *Oracle TimesTen In-Memory Database Replication Guide*.
12042	Cannot start transaction to perform this operation	Internal error. Contact TimesTen Customer Support.
12043	Unable to create temporary file name	Internal error. Contact TimesTen Customer Support.
12044	Transmission failure sending	TimesTen failed to transmit data to the remote TimesTen replication agent.
12045	Cannot create temporary file	Internal error. Contact TimesTen Customer Support.
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 ttRepDuplicateEx operation when the backup operation on the source database fails. See the verbose user error log on the source database for additional diagnostic information.
12049	Cannot write to temporary file	Internal error. Contact TimesTen Customer Support.
12050	Transaction commit for the swap operation failed	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
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 Customer Support.
12055	No changes needed to upgrade the replication schema	During upgrade, if the replication schema version of the old database is same as the current installation, no upgrade is required.
12056	Size values of local store must match that of the remote store	The `PermSize`, `TempSize` and `LogBuffSize` attributes of the local database do not match those of the remote database.
12057	Error creating temporary data store	Failed to create a local database.
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 `gethostbyname` with the specified remote host name failed.
12061	Invalid local host specified	A call to `gethostbyname` 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 Customer Support.
12064	Failed to execute SQL command during update	Internal error. Contact TimesTen Customer Support.
12065	Multiple records of replication schema version	Internal error. Contact TimesTen Customer Support.
12066	Failed to compile command	Internal error. Contact TimesTen Customer Support.
12067	Failed to open cursor	Internal error. Contact TimesTen Customer Support.
12068	Failed to get next row	Internal error. Contact TimesTen Customer Support.
12069	Failed to get format handle of the SQL command	Internal error. Contact TimesTen Customer Support.
12070	Failed to get column information	Internal error. Contact TimesTen Customer Support.
12071	Failed to get column value	Internal error. Contact TimesTen Customer Support.
12072	Multiple definitions of replication store id for the specified data store	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
12073	Cannot determine my own store name	Internal error. Contact TimesTen Customer Support.
12074	Cannot determine my own hostname	Internal error. Contact TimesTen Customer Support.
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 Customer Support.
12078	Failed to reset is_local_store	Internal error. Contact TimesTen Customer Support.
12079	Failed to set is_local_store	Internal error. Contact TimesTen Customer Support.
12080	No receiver found to swap with	Internal error. Contact TimesTen Customer Support.
12081	Unsupported column type in upgrade	Internal error. Contact TimesTen Customer Support.
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 Customer Support.
12084	Call to gethostname() failed	Internal error. Contact TimesTen Customer Support.
12085	No table found for table id	Internal error. Contact TimesTen Customer Support.
12086	Cannot get information on table	Internal error. Contact TimesTen Customer Support.
12087	Cannot get format of table	Internal error. Contact TimesTen Customer Support.
12088	Multiple definitions of source store id	Internal error. Contact TimesTen Customer Support.
12089	Cannot get column information of table	Internal error. Contact TimesTen Customer Support.
12090	Cannot get type mapping for column	Internal error. Contact TimesTen Customer Support.
12091	Cannot determine if version 2 replication tables exist	Internal error. Contact TimesTen Customer Support.
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 Customer Support.

Error number	Error or warning message	Details
12094	Cannot get count information from TTREP.TABLES	Internal error. Contact TimesTen Customer Support.
12095	Cannot update object id	Internal error. Contact TimesTen Customer Support.
12096	Cannot set object id	Internal error. Contact TimesTen Customer Support.
12097	Cannot get column values from TTREP.PEER	Internal error. Contact TimesTen Customer Support.
12098	Failed to determine correct write LSN for TTREP.REPPEERS.SENDLSN	Internal error. Contact TimesTen Customer Support.
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 Customer Support.
12101	Cannot start transaction to check replication schema version	Internal error. Contact TimesTen Customer Support.
12102	Failed to commit transaction for checking replication schema version	Internal error. Contact TimesTen Customer Support.
12103	Cannot get column value from TTREP.REPELEMENTS table	Internal error. Contact TimesTen Customer Support.
12104	Cannot find write LSN	Internal error. Contact TimesTen Customer Support.
12105	Failed to update LSN	Internal error. Contact TimesTen Customer Support.
12106	Cannot set new replication hold LSN	Internal error. Contact TimesTen Customer Support.
12107	Deleting table definition info failed	Internal error. Contact TimesTen Customer Support.
12108	Invalid policy '*invalid_policy*' specified. Must be *valid_policy_list*	You did not specify a valid policy value for a built-in procedure used to configure daemon policies. For example, ttCachePolicySet, ttRamPolicySet and ttRepPolicySet. For information about correct policy values, see the description of the particular procedure in the "Built-In Procedures" chapter in the *Oracle TimesTen In-Memory Database Reference*.
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 *signal_name* received	The application received a signal and terminated.

Error number	Error or warning message	Details
12114	Version mismatch between the backup files and restore. Backed-up files are version *version_number*; ttRestore is version *version_number*	The restore operation failed because the backup files were created by a different version of TimesTen than the ttRestore utility used.
12116	Cannot create database for restore	Internal error. Contact TimesTen Customer Support.
12117	Disconnect from newly created database failed	Internal error. Contact TimesTen Customer Support.
12119	Cannot open destination file	Failed to open database file while restoring from stream input.
12120	Insufficient bytes read from input stream	Internal error. Contact TimesTen Customer Support.
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 database 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 Customer Support.
12136	Error while deleting log files	Internal error. Contact TimesTen Customer Support.
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 Customer Support.
12151	Failed to commit TimesTen transaction for updating receiver CTN	Internal error. Contact TimesTen Customer Support.
12152	Cannot set timestamp column for table	Internal error. Contact TimesTen Customer Support.
12153	Cannot get DS_OBJ_ID value from TTREP.REPELEMENTS	Internal error. Contact TimesTen Customer Support.
12154	Cannot get TBLID value from SYS.TABLES	Internal error. Contact TimesTen Customer Support.
12155	Cannot get row id for row in TTREP.REPELEMENTS	Internal error. Contact TimesTen Customer Support.
12156	Too many tables found on second pass	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
12157	Failed to update the table IDs from the mapping we've created	Internal error. Contact TimesTen Customer Support.
12158	Cannot set replication fields in SYS.TABLES	Internal error. Contact TimesTen Customer Support.
12159	NULL passed for a pointer argument	The pointer argument must be a non-NULL value.
12160	Timeout - the agent is still starting	Under some conditions, you may receive this error when trying to stop the cache agent for a database while the agent is starting up. Retry the operation.
12161	Cannot backup temporary data stores	Backup is not allowed for temporary databases.
12164	RamGrace cannot be set for temporary data stores	ttAdmin -ramGrace can only be set on a permanent database.
12166	Failed to start Backup	The replication agent ran into an error while running the ttBackup utility on the subscriber database or when running ttRepAdmin -duplicate concurrently on more than one database. Run the ttBackup 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 Customer Support.
12185	No definitions of replication store id for the specified database. Ensure that the host name of this machine, or the name specified if -localhost was used, matches the host name specified in the replication scheme	Internal error. Contact TimesTen Customer Support.
12186	fstat() system call failed for user/system odbc.ini fle	Internal error. Contact TimesTen Customer Support.
12187	read() system call failed for user/system odbc.ini file	Internal error. Contact TimesTen Customer Support.
12188	close() system call failed for user/system odbc.ini file	Internal error. Contact TimesTen Customer Support.
12189	Scan stopped for user/system odbc.ini file	Internal error. Contact TimesTen Customer Support.
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 SQLDriverConnect ODBC call is less than 0 and not equal to SQL_NTS.

Error number	Error or warning message	Details
12192	Invalid backup type	An invalid value was passed as the type parameter of the `ttBackup` utility library function. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
12193	No backup directory specified	A null pointer or empty string was passed as the `backupDir` parameter of the `ttBackup` utility library function. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
12194	Failed to retrieve data store information	Internal error. Contact TimesTen Customer Support.
12195	Basename contains invalid characters	An invalid value was passed as the `baseName` parameter of the `ttBackup` utility library function. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
12196	Backup status file *file* not found	No backup status file was found for the given backup directory or base name. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
12197	Existing backup files do not match data store	The backup files indicated by the given backup directory or base name are not from the database that is being backed up. Causes for the mismatch include: These backup files can be overwritten by specifying a non-atomic backup. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
		■ The database that is stored in the backup files has a different database path name than the database that is being backed up.
		■ The database being backed up has the same database path name as the database that is stored in the backup files, but the two databases do not have the same creation time. This can happen if the backed up database was destroyed and a new database was created with the same database path name.
12198	One or more files missing from backup directory	One or more backup files are missing from the backup indicated by the given backup directory or base name. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
12199	Cannot read directory contents; OS-detected error: *error_number*	The contents of the backup directory could not be read due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*
12200	Failed to open backup status file: OS-detected error: *error_number*	The backup status file for the backup indicated by the backup directory or base name could not be opened due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide.*

Error number	Error or warning message	Details
12201	Failed to read backup status file: OS-detected error: *error_number*	The backup status file for the backup indicated by the backup directory or base name could not be read due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12202	Failed to write backup status file: OS-detected error: *error_number*	The backup status file for the backup indicated by the backup directory or base name could not be written due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12203	Failed to close backup status file: OS-detected error: *error_number*	The backup status file for the backup indicated by the backup directory or base name could not be closed due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12204	Invalid or corrupted backup status file	The backup status file for the backup indicated by the backup directory or base name is invalid or corrupt. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12205	Backup is incomplete	The backup status file for the backup indicated by the backup directory or base name is incomplete. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12206	Backup control information corrupted or incomplete (may indicate TimesTen version mismatch)	The backup status information for the backup indicated by the backup directory or base name is corrupted or incomplete. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12207	Failed to write backup status record; OS-detected error: *error_number*	Backup status information for the backup indicated by the given backup directory or base name could not be written due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
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 or base name failed due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12209	Failed to open file *file_name*; OS-detected error: *error_number*	One or more of the backup files indicated by the backup directory or base name could not be opened due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12210	Failed to read backup file; OS-detected error: *error_number*	One or more of the backup files indicated by the backup directory or base name could not be read due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.

Error number	Error or warning message	Details
12211	Backup file is shorter than expected	One or more of the backup files indicated by the given backup directory or base name have been truncated. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12212	Failed to write backup file; OS-detected error: *error_number*	One or more of the backup files indicated by the backup directory or base name could not be written due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12213	Failed to close backup file; OS-detected error: *error_number*	One or more of the backup files indicated by the backup directory or base name could not be closed due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12214	Failed to rename backup file; OS-detected error: *error_number*	One or more of the backup files indicated by the backup directory or base name could not be renamed due to an operating system error. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12215	Backup terminated because data store connection invalidated	The requested backup operation was terminated because the database connection was terminated. See "ttBackup" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12216	Invalid restore type	An invalid value was passed as the type parameter of the ttRestore utility library function. See "ttRestore" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
12217	Cannot restore into a temporary data store	A temporary database cannot be the target of a database restore operation. See "ttRestore" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
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. Refer to the daemon/server log for further details.
12219	Failed to connect to TimesTen Server. Refer to user error log for further details	A socket connection to the TimesTen Server failed. Refer to the daemon/server log for further details.
12220	Failed to send request to TimesTen Server	A socket send call failed. Normally, this is accompanied with a description of the OS error.

Error number	Error or warning message	Details
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	**Type of Message:** Error **Cause:** You attempted to truncate a table that does not exist, is part of a replication scheme, or is a cache group object. **Impact:** TimesTen unsuccessfully completed the duplicate operation. **User Action:** Destroy the destination database and retry the operation. Ensure that the table you want to truncate exists and is not part of a replication scheme or a cache group object. For more information on the ttRepAdmin utility or how to duplicate a database, see "ttRepAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
12232	Failed to drop objects	**Type of Message:** Error **Cause:** TimesTen cannot drop an object that does not exist, is part of a replication scheme, or is a cache group object. **Impact:** TimesTen unsuccessfully completed the duplicate operation. **User Action:** Destroy the destination database and retry the operation. Ensure that the object you want to drop exists and is not part of a replication scheme or a cache group object. For more information on the ttRepAdmin utility or how to duplicate a database, see "ttRepAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
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	**Type of Message:** Error **Cause:** You specified the same object to be dropped and truncated while running the ttRepAdmin -duplicate utility. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that any object specified in the ttRepAdmin -duplicate utility is not specified for the -drop option and -truncate option at the same time and retry the operation. For more information on the ttRepAdmin utility, see "ttRepAdmin" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
12236	There are duplicate identifiers specified in the drop option	**Type of Message:** Error **Cause:** You specified the same object to be dropped at least twice while running the `ttRepAdmin -duplicate` utility. **Impact:** TimesTen cannot perform the operation. **User Action:** Only specify the objects that you want to drop once for the `-drop` option of the `ttRepAdmin -duplicate` utility. Then retry the operation. For more information on the `ttRepAdmin` utility, see "ttRepAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
12237	There are duplicate identifiers specified in the truncate option.	**Type of Message:** Error **Cause:** You specified the same object to be truncated at least twice while running the `ttRepAdmin -duplicate` utility. **Impact:** TimesTen cannot perform the operation. **User Action:** Only specify the objects that you want to drop once for the `-truncate` option of the `ttRepAdmin -duplicate` utility. Then retry the operation. For more information on the `ttRepAdmin` utility, see "ttRepAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
12238	For -truncate or -drop you can specify "ALL" or a list of tables, not both.	**Type of Message:** Error **Cause:** You specified `ALL` and one or more objects for the `-drop` or `-truncate` option of the `ttRepAdmin -duplicate` utility. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that you specify `ALL` or a list of objects, not both, for the `-drop` or `-truncate` option of the `ttRepAdmin -duplicate` utility and retry the operation. For more information on the `ttRepAdmin` utility, see "ttRepAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
12245	No definitions of replication store id for the data store *DSN* on *host_name*	Arguments passed during database duplication are not consistent with database definitions on the source database.
12246	DSN *DSN_name* exceeds the maximum length of *length*	A database 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 `ttRepAdmin -duplicate` or to `ttRepDuplicateEx`.
12248	RamGrace cannot be specified with always or manual RAM policy	When setting the RAM residence policy for a database, a grace period can be used only with the `inUse` policy.

Error number	Error or warning message	Details
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.
12252	Could not check Oracle DB	An additional error message from the cache layer accompanies this message. Review that message to determine the problem and fix.
12253	The Active Standby Oracle Database is the same as the DR Oracle database	When the ttRepAdmin -duplicate -initCacheDR option is used, the disaster recovery Oracle database cannot be the same database as the active standby Oracle subscribing database. The check has identified a tt_03_reppeers entry which is from one of the Active Standby master databases to the disaster recovery Oracle database. Reconfigure the data recovery to resolve this conflict.
12254	Remote peer does not support parallel replication.	There is a mismatch in the parallel replication configuration between two databases involved in a replication scheme, where one database is enabled for parallel replication and the other is not.
12255	ACTIVE STANDBY PAIR replication schemes cannot be created when ReplicationApplyOrdering=1	**Type of Message:** Error **Cause:** You attempted to create an active standby pair replication scheme while the ReplicationApplyOrdering attribute is set to 1. **Impact:** TimesTen cannot create the active standby pair replication scheme. **User Action:** Set the ReplicationApplyOrdering attribute to 0. Then, retry the operation. For more information on the ReplicationApplyOrdering attribute, see "ReplicationApplyOrdering" in the *Oracle TimesTen In-Memory Database Reference*.
12257	Error creating bookmarks for the parallel tracks.	Internal error. Tried to create entries in TTREP.REPPEERS for parallel replication tracks. When parallel replication is enabled, there are more than one TTREP.REPPEERS entry for master->subscriber. The number of entries is dependent upon the ReplicationParallelism parameter.
12258	Return Receipt or Return TwoSafe cannot be used when parallel mode replication is configured.	Return Receipt and Return Twosafe cannot be used for a return service when the database has been created with parallel replication attributes, where the ReplicationApplyOrdering attribute is greater than 0.

Error number	Error or warning message	Details
12259	A store cannot be defined as a PROPAGATOR when parallel mode replication is configured.	Propagator databases are not supported when the database has been created with parallel replication attributes, where the ReplicationApplyOrdering attribute is greater than 0.
12260	Create cache group is not permitted when parallel mode replication is configured.	Cache groups are not supported when the database has been created with parallel replication attributes, where the ReplicationApplyOrdering attribute is greater than 0.
12261	ALTER TABLE is not permitted on a replicated table when parallel mode replication is configured.	ALTER TABLE is not allowed when the database has been created with parallel replication attributes, where the ReplicationApplyOrdering attribute is greater than 0. This error is raised at application time.
12262	Error setting track for connection.	Internal Error. The replication agent cannot use a specific track for its database connection.
12263	Aging is not permitted on a replicated table when parallel mode replication is configured.	In 11.2.1.6.0, aging on tables was allowed when ReplicationApplyOrdering was set to 1. Currently, aging is disabled when ReplicationApplyOrdering is set to 1. When a database with ReplicationApplyOrdering set to 1 is upgraded from 11.2.1.6.0, aging will be disabled.
12264	ALTER TABLE cannot be replicated to a store with parallel mode replication enabled.	This error occurs if the replication agent detects ALTER TABLE when parallel mode replication is enabled.
12274	Failed to read track entries for peer.	This is an internal error that is returned if the transmitter could not read metadata from ttrep.reppeers. Contact TimesTen Customer Support.
12275	Failed to convert replicated XLA bookmarks to non-replicated for read only subscriber	This error is returned after ttRepAdmin -duplicate processing. When a read-only subscriber is created with the -duplicate qualifier, TimesTen modifies replicated bookmarks to non-replicated.
		This error is returned if there is a problem modifying the bookmarks.

Error number	Error or warning message	Details
12276	RamPolicyAutoReload value must be 0 or 1.	**Type of Message:** Error **Cause:** You specified an incorrect value for the parameter of the ttRamPolicyAutoReloadSet built-in procedure. **Impact:** TimesTen cannot call the ttRamPolicyAutoReloadSet built-in procedure. **User Action:** Call the ttRamPolicyAutoReloadSet built-in procedure and pass either 0 or 1 as a parameter. For more information on the ttRamPolicyAutoReloadSet built-in, see "ttRamPolicyAutoReloadSet" in the *Oracle TimesTen In-Memory Database Reference.*
12325	Specifed local IP address could not be looked up	**Type of Message:** Error **Cause:** The IP address you specified with the ttRepAdmin -duplicate -localIPAddress option cannot be resolved by the target host. **Impact:** ttRepAdmin -duplicate failed because a connection from the local network interface device to the target host cannot be established. **User Action:** Ensure that the alias or IP address you specified for the local network interface device is correct. Also, ensure that the local network interface device you specified has access to the target host.
12326	Specifed remote IP address could not be looked up	**Type of Message:** Error **Cause:** The IP address you specified with the ttRepAdmin -duplicate -remoteIPAddress option cannot be resolved by the target host. **Impact:** ttRepAdmin -duplicate failed because a connection from the remote network interface device to the target host cannot be established. **User Action:** Ensure that the alias or IP address you specified for the remote network interface device is correct. Also, ensure that the remote network interface device you specified has access to the target host.
12327	Could not connect to the remote replication agent by binding to the specified local address	**Type of Message:** Error **Cause:** The ttRepAdmin utility cannot bind to the local address you specified in order to connect to the remote replication agent. **Impact:** ttRepAdmin -duplicate failed because the utility cannot bind to the local address you specified. **User Action:** Ensure that the alias or network address you specified is correct. Also, ensure that the remote replication agent you specified has access to the local network interface device.

Error number	Error or warning message	Details
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 documention for information on selecting a character set.	You must specify a value for the DatabaseCharacterSet attribute when creating a database. The database character set cannot be changed after database creation. For more details on selecting a database character set, see "Choosing a database character set" in the *Oracle TimesTen In-Memory Database Operations Guide*.
12702	Unable to load NLS data *data* from *NLS_data_item*	A particular NLS data file could not be located. The installation directory may have been corrupted or become unreadable. *NLS_ data_item* could be a character set name or a sort name.
12705	Invalid session parameter	The session parameter is unknown or unsupported by TimesTen. For example: ALTER SESSION SET NLS_BOGUS = 'french'; returns: 12705: Invalid NLS session parameter
12706	Invalid session parameter value.	The value supplied for the session parameter is unknown or unsupported by TimesTen. or example: ALTER SESSION SET NLS_SORT='bogus'; 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.

Error number	Error or warning message	Details

12716	`For the UNISTR SQL function, '\\' must be followed by four hexadecimal characters or another '\\'`	The `UNISTR` function argument allows the back-slash character only as an escape for a hexadecimal Unicode character or itself. For example:
		`UNISTR('\0041')`
		`UNISTR('abc\\nop')`

12717	`Character data loss in character set conversion`	**Type of Message:** Warning **Cause:** During character set conversion of data, a character was encountered for which no valid conversion exists. **Impact:** TimesTen substituted a replacement character in its place. **User Action:** You should change your connection character set to one that is compatible with the database character set in use. For more information, see "ConnectionCharacterSet" in the *Oracle TimesTen In-Memory Database Reference*.
12718	`Error setting default date/timestamp format 'format_string'`	Contact TimesTen Customer Support.
12719	`Error in conversion of NCHAR to ASCII`	If you attempt to convert the `NCHAR` type to either the `DATE` type or numeric type, TimesTen first converts the `NCHAR` type to `ASCII`. There was an error when TimesTen attempted to convert `NCHAR` TO `ASCII`. Check the data for your `NCHAR` type.

Errors 14000 - 14999

Error number	Error or warning message	Details
14000	`TimesTen daemon internal error: error_number`	Internal error. Contact TimesTen Customer Support.
14001	`TimesTen daemon out of memory error_details`	**Type of Message:** Error **Cause:** The TimesTen daemon has run out of swap space. **Impact:** Unknown. **User Action:** None.
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 database for specified reason.
14005	`TimesTen daemon connection failed: reason_for_failure`	TimesTen daemon could not make new database connection for specified reason.

Error number	Error or warning message	Details
14006	TimesTen daemon disconnect failed: *reason_for_failure*	TimesTen daemon could not do database disconnect for specified reason.
14007	TimesTen daemon destroy failed: *reason_for_failure*	TimesTen daemon could not destroy the database 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 database 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 database or rolling back transactions for a terminated process.
14014	TimesTen daemon policy request failed: *reason_for_failure*	A ttAdmin request failed for the specified reason.
14015	User *user_name*, not instance admin, trying to start TimesTen daemon as setuid root	A user other than the instance administrator attempted to start the main TimesTen daemon.

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.

Error number	Error or warning message	Details
15004	User *user* already exists	**Type of Message:** Error **Cause:** You attempted to create a user that already exists. **Impact:** TimesTen cannot perform the operation. **User Action:** Select a different user name and retry the operation.
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 `PWDCrypt` 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	**Type of Message:** Error **Cause:** You specified a password that exceeds the maximum allowed number of characters. **Impact:** TimesTen cannot perform the operation. **User Action:** Select a password that is within the maximum allowed number of characters and retry the operation.
15012	Encrypted password must have exactly *number* characters	`PWDCrypt` 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	**Type of Message:** Error **Cause:** You cannot alter the password for a user that was created during TimesTen database creation, including the instance administrator. **Impact:** TimesTen cannot perform the operation. **User Action:** None.
15016	Unsupported use of an internal system-user acccount	One of the predefined users ('`PUBLIC`', '`SYS`', '`TTREP`') is being used in an unsupported operation.

Error number	Error or warning message	Details
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.	**Type of Message:** Error **Cause:** You specified a password with one or more of the listed restrictions. **Impact:** TimesTen cannot perform the operation. **User Action:** Specify a password that does not contain any of the listed restrictions and retry the operation.
15019	Only the instance admin may alter the *attribute* attribute.	The current user is attempting to connect to the database using the specified first connection attribute with a value different from the existing database value. Only the instance administrator user may change that attribute. The user can either connect as instance administrator to change the attribute value, or connect without changing the value.
15020	UID not specified	The UID was not specified when executing a ttRepAdmin -duplicate operation. The user must provide the UID and rerun the ttRepAdmin -duplicate operation.
15021	PWD or PWDCrypt not specified	The PWD or PWDCrypt were not specified when executing a ttRepAdmin -duplicate operation. The user must provide a password or a value for the PWDCrypt attribute and rerun the ttRepAdmin -duplicate operation.
15022	OraclePwd connection attribute needs to be specified and has to be non-empty for using TimesTen Cache features	**Type of Message:** Error **Cause:** The OraclePWD connection attribute is not specified. **Impact:** Your application cannot use TimesTen Cache features if you do not specify a value for the OraclePWD connection attribute. For more information on TimesTen Cache features, see "Cache Group Operations" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. **User Action:** Specify the OraclePWD connection attribute for the TimesTen connection. Also, ensure that your OraclePWD is non-empty. For more information on specifying the OraclePWD connection attribute, see "OraclePWD" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
15100	User *user_name* lacks privilege *privilege_name*	**Type of Message:** Error
		Cause: The specified user does not have the required privileges to perform the operation.
		Impact: TimesTen cannot perform the operation.
		User Action: The instance administrator or a user with the ADMIN privilege must GRANT the required privilege to the specified user. For more information on user privileges, see "Privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*.
15102	Statement compilation failed. During privilege checking for statement, could not allocate *num* bytes on the compilation heap	Internal error. Contact TimesTen Customer Support.
15103	System-defined users and roles cannot be dropped	**Type of Message:** Error
		Cause: You cannot DROP system-defined users and roles.
		Impact: TimesTen cannot DROP the specified user or role.
		User Action: None.
15104	Only the instance administrator can destroy a database	**Type of Message:** Error
		Cause: You attempted to destroy a database.
		Impact: You cannot destroy a database while you are connected as the specified user. Only the instance administrator can destroy the database.
		User Action: Connect as the instance administrator and destroy the database. For more information on the instance administrator, see "TimesTen instance administrators and users groups" in the *Oracle TimesTen In-Memory Database Installation Guide*.
15105	User *username* requesting database creation is not the instance administrator. Please verify user id and password. Only the instance administrator can create a database.	**Type of Message:** Error
		Cause: You attempted to create a database.
		Impact: You cannot create a database while you are connected as the specified user. Only the instance administrator can create a database.
		User Action: Connect as the instance administrator and create the database. For more information on the instance administrator, see "TimesTen instance administrators and users groups" in the *Oracle TimesTen In-Memory Database Installation Guide*.
15106	Database users cannot invoke internal built-in procedures	You attempted to call a TimesTen built-in procedure that is reserved for internal use only.

Error number	Error or warning message	Details
15107	User lacks CREATE SESSION privilege; logon denied	**Type of Message:** Error **Cause:** You attempted to connect to a database with a user that does not have the CREATE SESSION privilege. **Impact:** The specified user cannot connect to the database. **User Action:** The instance administrator or an user with the ADMIN privilege must GRANT the CREATE SESSION privilege to the specified user. For more information on user privileges, see "Privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*.
15109	The system privilege SYSDBA is not supported. The system privilege ADMIN can be used for most administrative tasks.	**Type of Message:** Error **Cause:** SYSDBA is not a valid privilege. **Impact:** TimesTen cannot GRANT the SYSDBA privilege to the specified user. **User Action:** Consider granting the ADMIN privilege to the specified user. For more information on the ADMIN privilege, see "Granting administrator privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.
15110	*object* does not exist	This message displays in cases where the lack of existence should have been caught prior to privilege computation.
15111	Invalid privilege: *privilege*. Roles are not supported.	**Type of Message:** Error **Cause:** The privilege you attempted to GRANT does not exist. **Impact:** TimesTen cannot GRANT the specified privilege. **User Action:** Check the name or spelling of the privilege and retry the operation. For more information on user privileges, see "Privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*
15140	GRANT failed: User *user_name* already has system privilege *privilege_name*	**Type of Message:** Error **Cause:** The specified user already has the system privilege you attempted to GRANT. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that your SQL statement is correct. If necessary, retry the operation. For more information on system privileges, see "System privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on granting system privileges, see "Granting or revoking system privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.

Error number	Error or warning message	Details
15141	GRANT failed: User *user_name* already has object privilege *privilege* on *object*	**Type of Message:** Error **Cause:** The specified user already has the object privilege you attempted to GRANT. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that your SQL statement is correct. If necessary, retry the operation. For more information on object privileges, see "Object privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on granting object privileges, see "Granting or revoking object privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.
15142	REVOKE failed: User *user_name* does not have system privilege *privilege_name*	**Type of Message:** Error **Cause:** The specified user does not have the system privilege you attempted to REVOKE. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that your SQL statement is correct. If necessary, retry the operation. For more information on system privileges, see "System privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on revoking system privileges, see "Granting or revoking system privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.
15143	REVOKE failed: User *user_name* does not have object privilege *privilege* on *object*	**Type of Message:** Error **Cause:** The specified user does not have the object privilege you attempted to REVOKE. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that your SQL statement is correct. If necessary, retry the operation. For more information on object privileges, see "Object privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*. For more information on revoking object privileges, see "Granting or revoking object privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.
15144	REVOKE failed: Cannot revoke system-granted object privilege *privilege* on *object* from *role*	**Type of Message:** Error **Cause:** You attempted to REVOKE an object privilege from PUBLIC that was system-granted during database creation. **Impact:** TimesTen cannot perform the operation. **User Action:** You can only REVOKE privileges granted to the PUBLIC role after database creation. For more information on the PUBLIC role, see "PUBLIC role" in the *Oracle TimesTen In-Memory Database Operations Guide*.

Error number	Error or warning message	Details
15150	*operation* failed: (internal error) *error_message*	The specified operation failed for the reason indicated in the error message.
15151	*operation* failed: User *user_name* does not exist	**Type of Message:** Error **Cause:** The specified user does not exist. **Impact:** TimesTen cannot perform the operation. **User Action:** Check the name or spelling of the user and retry the operation.
15152	*operation* failed: Object *object_name* does not exist	**Type of Message:** Error **Cause:** The specified object does not exist. **Impact:** TimesTen cannot perform the operation. **User Action:** Check the name or spelling of the object and retry the operation.
15154	*operation* failed: Invalid privilege *privilege_name* for object *object_name* type *type_name*	The operation failed because there is a mismatch between the specific privilege and the object.
15155	*operation* failed: You do not have the rights to grant or revoke privilege *privilege_name*	**Type of Message:** Error **Cause:** You do not have the adequate privileges necessary to GRANT or REVOKE the specified privilege. **Impact:** TimesTen cannot perform the operation. **User Action:** The instance administrator or an user with the ADMIN privilege must GRANT or REVOKE the specified privilege. For more information on user privileges, see "Privileges" in the *Oracle TimesTen In-Memory Database SQL Reference*.
15156	*operation* failed: You do not have the rights to grant or revoke privilege *privilege_name* on *object_name*	**Type of Message:** Error **Cause:** You do not have the rights necessary to GRANT or REVOKE the specified privilege to the specified object. **Impact:** TimesTen cannot perform the operation. **User Action:** The instance administrator, an user with the ADMIN privilege, or the owner of the specified object must GRANT or REVOKE the specified privilege. For more information on object privileges, see "Providing authorization to objects through privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.

Error number	Error or warning message	Details
15157	*operation* failed: User *user_name* is the owner of *object_name*	**Type of Message:** Error **Cause:** You attempted to GRANT or REVOKE privileges for the owner of the specified object. **Impact:** TimesTen cannot perform the operation. **User Action:** Ensure that your SQL statement is correct. If necessary, retry the operation. For more information on object privileges, see "Granting or revoking object privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.
15158	*operation* failed: Cannot grant or revoke privilege from instance admin *user_name*	You do not have adequate privileges to grant or revoke privileges to/from the instance administrator.
15159	*operation* failed: *privilege_name* listed more than once in privilege list.	You must indicate a privilege only once in the SQL statement when attempting to grant or revoke it.
15160	*operation* failed: *privilege_name* on *object_name* is listed more than once in privilege list	You must indicate a privilege only once for a specific object in the SQL statement when attempting to GRANT or REVOKE it.
15161	*operation* failed: *keyword* is redundant with ALL	You issued a GRANT ALL or REVOKE ALL statement, while attempting to grant or revoke other specific privileges. Adding additional privileges to the GRANT ALL (or REVOKE ALL) statement is redundant. Attempt the operation again and specify either ALL or the specific privileges that you want to GRANT or REVOKE.
15162	*operation* failed: *operation* on *object_name* is redundant with ALL on *object_name*	**Type of Message:** Error **Cause:** You attempted to GRANT ALL or REVOKE ALL privileges for the specified object, while attempting to add additional privileges that make the SQL statement redundant. **Impact:** TimesTen cannot perform the operation. **User Action:** Specify either ALL or the specific privileges you want to GRANT or REVOKE, and retry the operation. For more information, see "Granting or revoking object privileges" in the *Oracle TimesTen In-Memory Database Operations Guide*.
15163	*operation* failed: *user_name* is listed more than once in user list.	You must list the user name only once in a SQL statement.

Error number	Error or warning message	Details
15164	*operation* failed: Cannot grant or revoke privileges from internal system-user *user_name*	**Type of Message:** Error **Cause:** You attempted to GRANT or REVOKE a privilege to or from an internal TimesTen user. **Impact:** TimesTen cannot perform the operation. **User Action:** None.
15165	Invalid system privilege *sys_privilege*.	The user specified an invalid privilege in a GRANT or REVOKE statement when a system privilege was expected. For more information about valid system privileges, see "Providing authorization to objects through privileges" in the *Oracle TimesTen In-Memory Database Operations Guide.*
15166	Invalid object privilege *object_privilege*.	The user specified an invalid privilege in a GRANT or REVOKE statement when an object privilege was expected. For more information about valid system privileges, see "Providing authorization to objects through privileges" in the *Oracle TimesTen In-Memory Database Operations Guide.*
15167	Cannot drop a user that is currently connected.	**Type of Message:** Error **Cause:** You attempted to DROP a user that has an active connection to the database. **Impact:** TimesTen cannot perform the operation. **User Action:** Disconnect the specified user from the database and retry the operation. Use the utility ttXactAdmin -connections to identify the process associated to the specified user. For more information on the ttXactAdmin utility, see "ttXactAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
15168	Cannot drop a user that owns database objects (*string string*).	**Type of Message:** Error **Cause:** You attempted to DROP a user that owns one or more objects in the database. **Impact:** TimesTen cannot perform the operation. **User Action:** DROP all objects owned by the user and retry the operation. For more information on dropping a SQL object, see the respective section in the *Oracle TimesTen In-Memory Database SQL Reference*.

Errors 16000 - 16999

Error Number	Error or warning message	Details
16001	TimesTen Replication Agent (version *major_release*. *minor_release*.*patch_release*) started	Informational message. No action required.

Error Number	Error or warning message	Details
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 database.
16005	Failed to disconnect from datastore '*data_store_name*' for '*thread_name*' thread	The specified thread was unable to disconnect from the named database.
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 database.
16010	Failed to update diskless status of the data store	Replication agent failed to set the diskless status of the database.
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 database without first performing the duplicate operation. Set the ForceConnect attribute as described in "Recovering nondurable databases" in the *Oracle TimesTen In-Memory Database Replication Guide* for more information.
16012	Data store is invalid. Replication Agent exiting but may be restarted by TimesTen daemon (depending on restart policy)	The replication agent considers the database 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.

Error Number	Error or warning message	Details
16018	Failed to connect to TimesTen daemon for *socket_name* socket; port: *port_number*; id: *rep_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: *error_message*	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.
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_struct*; 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 threads are not properly terminated.
16029	Waiting for *thread_name*' thread to finish	Informational message. No action required.
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.

Error Number	Error or warning message	Details
16032	Call to *function_name*() failed. System Error: *os_error_number*	**Type of Message:** Error **Cause:** The specified operating system call failed with the operating system error that is displayed. **Impact:** Review the man pages of the failed operating system call for possible impacts. **User Action:** The man pages of the failed system call lists the possible causes for the failure. Diagnose and troubleshoot the operating system error. Then run the ttCWAdmin utility command that failed. If you are unable to troubleshoot the operating system error or still receive this error, contact TimesTen Customer Support.
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.
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. This error usually occurs due to a locking issue that is caused by either a long commit on the receiving side or an application blocking the replication agent. When this error is encountered, TimesTen will retry in 10 seconds. Check to ensure that you do not directly access the TTREP tables especially if you are using serializable isolation. Also, ensure that your transactions are not too large.

Error Number	Error or warning message	Details
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 database.
16045	Failed to retrieve peer store ID for the provided database name '*dsname*' ON host '*host_name*'. *error_code*. *error_message*	The replication agent failed to get a store ID for a specific database 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 systems.
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.
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*	Database backup operation failed. The error message provides details.
16057	Failed to perform Network Checkpoint	Database 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.

Error Number	Error or warning message	Details
16060	Failed to read data from the network. *error_message* isAwt (*awt_cond*) parallelism (*parallel_async_tracks*) trackId (*track_id*) socket (*socket*)	A read on a socket failed. This is often the result of network problems.
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.
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 database.
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.

Error Number	Error or warning message	Details
16078	Table definition for ID *table_id* is invalid (Original failure *message_id message_details*)	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 *row* from master *master* for *operation*	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 *row* from master *master* for *operation*	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.
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.

Error Number	Error or warning message	Details
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 Customer Support.
16098	Invalid replicationschema. More than one entry for element *element_name* in replication scheme *replication_owner*.*scheme_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 *owner*.*table_name* to me in replication scheme *owner*.*scheme_name*. Continuing...	Multiple tables with a particular owner and name were found in a replication schema.
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 *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 *owner*.*cache_group_name*	Cache group definitions are inconsistent.
16105	Incompatible definition for 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 TTREP.REPLICATIONS table.

Error Number	Error or warning message	Details
16109	`Failed to update send LSN (operation: operation_name)`	The SEND Log Sequence Number could not be updated in the database.
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 are displayed, also.
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. This failure occurs if something is inconsistent in the database. Additional messages about the cause of the problem are displayed.
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.

Error Number	Error or warning message	Details
16123	Transaction (*connection_id*.*counter*) 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_file_number*/*log_file_offset* (caller line: *line_number*)	A seek (setting position) on the transaction log failed.
16129	Starting log read at LSN *log_file_number*/*log_file_offset* (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.
16131	Internal Error. Bad copy to action ends at *log_field* not *log_field* with nbuf *buffer* primkeylen *primary_key_length*	A log record has field lengths that are inconsistent.
16132	Internal Error. Buffer *buffer* addr *address_value*, size *size*	This message provides details for message 16131: Internal Error. Bad copy to action ends at *log_field* not *log_field* with nbuf *buffer* primkeylen *primary_key_length*.
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.

Error Number	Error or warning message	Details
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 database.
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.
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 RETURN RECEIPT. Details in other error messages.
16145	Failed to update state in return-receipt buffer	The return receipt updated failed in the database.
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*	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_file_number.log_file_offset*	Internal error. Contact TimesTen Customer Support.
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 RETURN RECEIPT state.

Error Number	Error or warning message	Details
16154	Failed to check for replication schema changes	An attempt to mark a replication schema as changed has failed.
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 the TimesTen daemon restarts the replication agent.
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."
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 failed.
16167	Failed to check catchup status	Automatic catch-up operation for a failed master database has failed.
16168	Master Catchup started for '*data_store_name*' from CTN *timestamp sequence_number* to *timestamp sequence_number*	Informational message. No action required.
16169	TimesTen Replication Agent termination begun because of permanent failure during Master Catchup	Internal error. Contact TimesTen Customer Support.
16170	Master Catchup completed for '*data_store_name*'	Informational message. No action required.

Error Number	Error or warning message	Details
16171	Confirm Name packet with unreasonable name length *number_of_bytes*	Internal error. Contact TimesTen Customer Support.
16172	Confirm Name packet for *dsname* received, but I am *dsname*	Internal error. Contact TimesTen Customer Support.
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.
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 TTREP.REPNETWORK 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 database 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: "SbCTNPrintFmt"; Error: transient *flag*, permanent *flag* state *flag* error message : *number*	The commit of a block of transactions had errors. Details in other error messages for the individual failures. Some 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*	**Type of Message:** Internal Error **Cause:** The replication agent is beginning a transaction, but it is not in the idle state. **Impact:** The replication receiver is delaying the process and will retry the transaction. **User Action:** Restart the replication agent. If you still receive this error after restarting the replication agent, contact TimesTen Customer Support.
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 is skipped and the new table definition is discarded.
16193	Adding definition for table: *table_name*	Informational message. No action required.
16194	Subscriber return service attribute conflict for element *element_name* (table *table_name*) in replication scheme *replication_owner*. *scheme_name*. Transmitting peer *dsname* ON *code_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.

Error Number	Error or warning message	Details
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 rare 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.
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.

Error Number	Error or warning message	Details
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.
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 Customer Support.
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_file_number*.*log_file_offset* error	**Type of Message:** Internal Error **Cause:** There is an inconsistency between the master and subscriber in the area of VARCHAR or VARBINARY columns in a replicated table. **Impact:** There is a divergence of data between the master and the subscriber because a transaction did not replicate correctly. **User Action:** Contact TimesTen Customer Support.
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 *milliseconds* with peer store *DSN*	The network latency between the databases is higher than permitted for an active standby pair.
16224	Transmitter thread failure due to high clock skew *milliseconds* with peer store *DSN*	The clock slew between the databases is higher than permitted for an active standby pair.
16225	Transmitter thread failure due to lack of scheme consistency with peer store	The databases 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 must be executed to ensure that the schemes on the two databases match.
16226	Receiver thread failure due to scheme read failure	The local database was unable to read the replication scheme.
16227	Standby store has replicated transactions not present on the active. Local CTN=*commit_ticket_number*, Backup CTN= *commit_ticket_number*, Received CTN= *commit_ticket_number*.	The standby database has transactions present that are not present on the active database. This indicates that the present active database was incorrectly set up to be an active database. To remedy this situation, duplicate the standby database from the active database.
16228	Transmitter thread failure due to lack of state consistency between active and standby stores	The databases 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 must be executed to ensure that the schemes on the two databases match.
16229	Transmitter thread failure due to lack of state consistency at subscriber store *DSN*	The databases 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 must be executed to ensure that the schemes on the two databases match.
16230	Store not in standby state	An error returned by the replication agent that indicates a transitory condition. No user action is necessary.

Error Number	Error or warning message	Details
16231	The duplicate operation on this store was not successfully completed	The local database was created by a duplicate operation that did not complete successfully. Destroy the database 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 database allows a standby database to connect only after it has a connection from the active database.
16233	The subscriber store has updates not present on the active store	The subscriber database has transactions present that are not present on the active database. This indicates that present active database was incorrectly set up. To remedy this situation, duplicate the subscriber database.
16234	The subscriber store has been classified as failed by the active	The databases 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 databases match.
16235	Failed to update CTNs for standby '*DSN*'	Error updating replication bookmark information (Commit Ticket Number) in the replication agent.
16236	Failed to update CTN for the subscriber store	Error updating replication bookmark information (Commit Ticket Number) in the replication agent.
16237	Awt thread initialized for OracleNetServiceName= *net_svc_name*, CacheUid=*cache_uid*, BatchCommitSize=*size*, AwtErrorFile=*awt_err_file*, AwtBufSize=*size* KB	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 *sequence_id*	A failure occurred while retrieving subscription information for a sequence.
16243	No sequence found with id *sequence_id*	A sequence with the specified ID was not found.
16244	Skipping definition received for already-defined sequence *sequence_id*. Part of previously processed transaction	A subscriber received information about a sequence but already has the information.
16245	Adding definition for sequence: *sequence_id*	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 *sequence_id*. Local definition: Minval : *value*, Maxval: *value*, Increment: *value*; transmitting peer: Minval: *value*, Maxval: *value*, Increment: *value*	The sequence definition on the master database does not match the sequence information generated for the subscriber databases.
16247	Sequence *sequence_id* 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 databases. No updates are applied for this sequence until a valid description is sent.
16248	Sequence *sequence_id* not found	A subscriber database 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 database was not added to the queue.
16250	Failed to update sequence *sequence_id*	Failed to apply a sequence update to the subscriber database.
16251	Sending definition for sequence *owner.sequence_id*	Informational message from master database.
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 databases.
16253	Failed to retrieve cascade delete configuration for table *table_name*	**Type of Message:** Internal Error **Cause:** The ON DELETE CASCADE definition on the master and subscriber may not be the same. **Impact:** Replication for this table cannot work until the ON DELETE CASCADE definition is the same on the master and subscriber. **User Action:** Ensure that the ON DELETE CASCADE definition is the same on the master and subscriber. For more information on using ON DELETE CASCADE in a replication scheme, see "Replicating tables with foreign key relationships in a classic replication scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*. For additional help, contact TimesTen Customer Support.
16254	Master has not been assigned an Active or Standby Role	This message could occur when a replication agent for a master database 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.

Error Number	Error or warning message	Details
16255	Invalid replication schema. More than two _ORACLE stores found in scheme	**Type of Message:** Internal Error **Cause:** A sanity check has failed in an ACTIVE STANDBY scheme that includes autorefresh cache groups. **Impact:** Replication cannot work. **User Action:** Contact TimesTen Customer Support.
16256	Invalid replication schema. No _ORACLE stores found	**Type of Message:** Internal Error **Cause:** A sanity check has failed in an ACTIVE STANDBY scheme that includes autorefresh cache groups. **Impact:** Replication cannot work. **User Action:** Contact TimesTen Customer Support.
16257	The ID for this store does not match either of the master Ids	**Type of Message:** Internal Error **Cause:** A sanity check has failed after a ttRepAdmin -duplicate operation on an ACTIVE STANDBY scheme that includes autorefresh cache groups. **Impact:** You cannot duplicate the database. **User Action:** Contact TimesTen Customer Support.
16258	Failed to retrieve heartbeat factor information	Internal error. Contact TimesTen Customer Support.
16259	Wrong number of rows (*number_of_rows*) affected on Oracle when updating Active Standby Information	**Type of Message:** Internal Error **Cause:** A sanity check failed in an ACTIVE STANDBY scheme when information was updated on an Oracle database subscriber. **Impact:** Replication cannot work correctly. **User Action:** Contact TimesTen Customer Support.
16260	Failed to update autorefresh bookmark	The replication operation was unable to update the autorefreshed cache group bookmark on the subscriber database 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 database.
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 database.
16263	Secure protocol violation	There was a connection attempt from another replication agent that violated the security challenges presented on the protocol.

Error Number	Error or warning message	Details
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 database directly. Operations such as adding or dropping a 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.
16267	The host name list is not available from ttrep.ttnework.	An error occurred in performing a query on TTREP.REPNETWORK table. This is usually a transient error, if the database is already running and a replication scheme is already defined on the master database. The transmitter in the replication agent attempts to run this query again in one second.
16268	Failed to retrieve aging configuration for table *owner.table*.	This is part of replication. The first time the transmitter sends a transaction for a particular table, TimesTen sends the table definition. This message indicates something went wrong while trying to retrieve the aging information. There is an additional error message detailing the specific failure. Review that message to determine the problem and fix.
16269	In an Active Standby scenario, AWT Monitoring should be enabled on the Standby node	In an active standby pair with an AWT cache group, monitoring gives relevant results only on the standby node, which does the propagation of the workload to the Oracle database. Enabling AWT monitoring on the active node does not record any monitoring information. If the standby node fails and if the active node takes over, calling the ttCacheAWTMonitorConfig built-in procedure automatically enables monitoring the AWT statistics.
16270	AWT Monitoring should not be enabled on the Subscriber node in an Active Standby scenario	In an active standby pair with subscribers and an AWT cache group, monitoring on a subscriber does not reveal any useful information. Call the ttCacheAWTMonitorConfig built-in procedure to disable monitoring the AWT statistics.

Error Number	Error or warning message	Details
16271	Monitoring could not be configured because replication agent does not have an active AWT thread	This error is thrown if the replication agent is either invalid or in an initialization phase. If the AWT receiver is killed due to an unexpected situation, the replication agent is in an invalid state. It is also possible that the AWT receiver has not been started by the replication agent, in which case it is in an initialization phase. Resolution for this error is to call the `ttCacheAWTMonitorConfig` built-in procedure again, with the state parameter set to "`ON`."
16272	Operation not permitted on a store in the ACTIVE state.	This is an internal mismatch. In an active standby pair, a routine that should only be running on a standby is running on the active. This is most likely caused during the detection of a "split-brain" (both masters marked active) problem and should be self-correcting.
16273	Error updating standby store.	A failure occurred while trying to get the latest status for an active standby pair standby.
16274	Failed to modify active standby data. caller: *caller_name*	After a duplicate operation, some data on TimesTen system tables must be modified for the destination database on both TimesTen and the Oracle database. This operation has failed, but the replication agent retries the operation.
16275	RECEIVER network helper thread terminating due to certain error already recorded in the system log	**Type of Message:** Error **Cause:** Review the user error log for error messages relating to the `RECEIVER` network helper thread for possible causes. **Impact:** TimesTen terminates the `RECEIVER` network helper thread. **User Action:** None.
16276	RECEIVER restarting daemon because helper thread failed to spawn	**Type of Message:** Error **Cause:** Review the user error log for error messages relating to the `RECEIVER` network helper thread for possible causes. **Impact:** The replication agent recycles the helper thread. **User Action:** None.
16277	The Instance Admin user id is not the same in both instances.	The instance administrator name must be the same on both the source and target databases when running `ttRepAdmin -duplicate` or `ttRepDuplicateEx`.
16278	Failed to get Cache AWT method	Unable to get the attribute value for use in the replication agent. An invalidation was most likely detected.

Error Number	Error or warning message	Details
16279	`Cannot start AWT propagation because replication agent cannot connect to Oracle RDBMS database: OracleNetServiceName = \"`*name*`\", uid = \"`*uid*`\", pwd is hidden, TNS_ADMIN = \"`*TNS_ADMIN_name*`\", Error Msg= \"`*message*`\"`	Replication agent is not able to connect to the Oracle database. Check to see that `TNS_ADMIN` is configured properly and ensure that the Oracle database is reachable.
16280	`Parallel AWT requested restart of the worker threads`	Parallel AWT thread encountered an error and restarting of the threads was necessary.
16281	`Replication receiver track` *track_id* `waiting for receiver track` *track_id* `to initialize`	This is an informational start up message.
16282	`Replication receiver track` *track_id* `waiting for receiver track` *track_id* `to finish`	This is an informational shut down message.
16287	`Replication receiver with local store id` *tt_store_id*`, remote store id` *tt_store_id*`, track id` *track_id* `still finds a previous track 0 receiver running.`	A master thread running on the receiver was detected and should not have been.
16288	`Replication receivers are stopping.`	This is an informational shut down message.
16289	`Replication receivers face dependency error.`	There was an internal error during a replication dependency wait for parallel processing.
16290	`Replication transmitters are stopping.`	This is an informational shut down message on the transmitter. The group of threads for a particular subscriber are stopping.
16291	`Replication receivers are starting serial commit mode`	**Type of Message:** Error **Cause:** TimesTen detected a problem with parallel replication. TimesTen is reprocessing the transactions in serial mode. **Impact:** Replication throughput is momentarily decreased. **User Action:** Contact TimesTen Customer Support.
16292	`Replication receivers are stopping serial commit mode`	This is an informational message indicating that the replication receivers are stopping serial commit mode.
16293	`Failed Replication thread` *thread* `is exiting` *description*	This error occurs when the transmitter is stopping. You should see a description of what the transmitter was doing before it exited.

Error Number	Error or warning message	Details
16294	`Transmitter waiting on AWT appliers.`	**Type of Message:** Warning
		Cause: Propagation from TimesTen to the Oracle database is slow, causing transmitter threads to stall.
		Impact: This can result in `LOG_FS_READS` that may cause performance degradation of replication throughput. This may also increase workload on the I/O subsystem. For more information on `LOG_FS_READS`, see "SYS.MONITOR" in the *Oracle TimesTen In-Memory Database System Tables and Views Reference*.
		User Action: Contact TimesTen Customer Support.
16295	`Failure updating Active Standby` *`replication_role_or_state`* `information on the Oracle database`	**Type of Message:** Error
		Cause: The replication agent cannot update the indicated information on the Oracle database.
		Impact: Review the error message for possible impacts.
		User Action: Review the error message for possible fixes.
16296	`Receiver for` *`subscriber_store`* `on` *`subscriber_host`* `port` *`port`* `completed handshake with Transmitter for` *`master_store`* `on` *`master_host`*	**Type of Message:** Informational
		Cause: A receiver for the specified subscriber store completed a handshake with a transmitter of the specified master store.
		Impact: None.
		User Action: None.
16297	`Failed to set transparent load`	**Type of Message:** Error
		Cause: The transmitter cannot set transparent load.
		Impact: The transmitter will retry to set transparent load. Also, the threads will attempt to recycle and self-correct the error. Review the error message for any additional impacts.
		User Action: Review the error message for possible fixes.
16298	`Waiting for the AWT receiver to complete propagation. Current sleep iteration` *`timeout_count`*	**Type of Message:** Informational
		Cause: The replication agent is waiting for the AWT receiver to complete the propagation of a long running AWT transaction.
		Impact: The replication agent cannot timeout while the AWT transaction is being propagated to the Oracle database.
		User Action: None.

Error Number	Error or warning message	Details
16299	Finished with received request *request*	**Type of Message:** Informational **Cause:** The replication agent completed the specified request. **Impact:** None. **User Action:** None.
16300	Failed materialized view info: *info additional_info*	**Type of Message:** Error **Cause:** The replication agent failed to update a base table for a materialized view. **Impact:** The replication agent cannot update the base table for the materialized view. If this is a transient error, the replication agent tries the transaction again. If this is a permanent error, the transaction is lost. **User Action:** Review the daemon log for any additional error messages to determine a cause for this error. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*. For more information on materialized views, see "Understanding materialized views" in the *Oracle TimesTen In-Memory Database Operations Guide*.
16303	Backing out of wait and retrying transaction	**Type of Message:** Internal Error **Cause:** The replication agent detected a parallel replication deadlock and is retrying the operation. This message is preceded by another message that describes the details of the error. **Impact:** None. **User Action:** Review the daemon log for any additional error messages to determine a cause for this error. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
16304	Flagging transaction *timestamp.sequence_number* on track *track_id* to rollback and retry	**Type of Message:** Informational **Cause:** This is an accompanying error message to error 16303. The specified transaction is flagged for retry. **Impact:** None. **User Action:** None.

Error Number	Error or warning message	Details
16305	Constraint Check Fail table *table_name* Optype *SQL_operation tuple* key *tuple_key*	**Type of Message:** Error **Cause:** The replication agent encountered an error while checking constraints on an operation. **Impact:** If this is a transient error, the replication agent tries the operation again. If this is a permanent error, there may be differences in the data contained by the databases that are part of the replication scheme. **User Action:** Review the daemon log for any additional error messages to determine a cause for this error. Also, verify that the data contained in the specified table in the databases that are part of the replication scheme is consistent. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
16306	DepCTN[*track_id*]= *timestamp.sequence_number*	**Type of Message:** Informational **Cause:** The replication agent is printing the dependency information on a transaction because of a failed operation. This message is followed by another messages that describe the details of the failure. **Impact:** None. **User Action:** Review the daemon log for any additional error messages to determine a cause for this error. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
16307	rxWaitCTN waiting for *timestamp.sequence_number* on track *track_id* currently at *timestamp.sequence_number* stalled for *time* seconds	**Type of Message:** Internal Error **Cause:** TimesTen is experiencing a performance issue. This message is followed by another message that describe the details of the issue. **Impact:** TimesTen is stalling the transaction. **User Action:** Use the ttXactAdmin utility to verify the status of the specified transaction. Also, review the message log for any additional error messages to determine a cause for this error. For more information on the ttXactAdmin utility, see "ttXactAdmin" in the *Oracle TimesTen In-Memory Database Reference* and "Using the ttXactAdmin utility" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error Number	Error or warning message	Details
16308	Error while initializing context ctn array	**Type of Message:** Error **Cause:** TimesTen cannot allocate memory from the heap for the CTN array in the context. **Impact:** The database cannot continue normal operations. **User Action:** Increase the value for the `PermSize` or `TempSize` attribute, or both. For more information on how to increase the values of `PermSize` and `TempSize`, see "Specifying the size of a database" in the *Oracle TimesTen In-Memory Database Operations Guide*.
16309	Error requesting sync point for drift correction	**Type of Message:** Internal Error **Cause:** This message is preceded by another message that describes the details of the error. **Impact:** TimesTen cannot perform the operation. **User Action:** Retry the operation. If the error persists, review the daemon log for any additional error messages to determine a cause for this error. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
16999	*Replication_message*	This is an informational replication message that is found in the replication log. The message text provides details on the message.

Errors 17000 - 19999

Error number	Error or warning message	Details
17000	*object owner.name* was quoted in an *clause* clause but does not exist.	The table or cache group specified in an `INCLUDE` or `EXCLUDE` clause does not exist.
17001	The *clause object* clause has the same name (*object*) 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 database were excluded in the `CREATE REPLICATION` statement. There must be at least one object in the database.
17003	Maximum number of peers *max_peers* exceeded for *store*	The limit on the maximum number of peer databases was exceeded. The message indicates the maximum limit.

Error number	Error or warning message	Details
17004	Table *owner*.*table_name* of cache group *owner*.*cache_group_name* 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 *object_type* element	Conflict checking cannot be configured on a SEQUENCE element, for example.
17006	Cannot configure return service on a *object_type* element	Return service cannot be configured on a SEQUENCE element, for example.
17007	Sequence *owner*.*sequence_id* 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 *owner*.*sequence_id* will not be included in the replication scheme as part of this operation because it was created with CYCLE specified	If a database 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 databases 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.	The replication connection timeout is below the recommended value. This may lead to many 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*.*table* 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.

Error number	Error or warning message	Details
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 `ttHostNameSet` you have specified a host name for a replication subscribe to a value that differs from the default host name already in use by a replication scheme. The host name is not changed. To view the current host name specified in the scheme, use the procedure `ttHostNameGet`.
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 database 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	**Type of Message:** Internal Error
		Cause: A sanity check between the master and subscriber of a replication scheme failed to identify the character set used in the database.
		Impact: The replication agent cannot start correctly.
		User Action: Check the additional error messages to identify a possible cause as to why the character set used in the database could not be identified. For additional help, contact TimesTen Customer Support.

Error number	Error or warning message	Details
17017	The database character set differs from its peer	**Type of Message:** Internal Error **Cause:** The database character set used by a master in a replication scheme is different than that used by the subscriber. **Impact:** The replication agent cannot start correctly. **User Action:** Check the character sets defined by the databases in your replication scheme. If the character sets differ, make the appropriate changes so that all databases are using the same character set. For more information, see "Database character set conversion" in the *Oracle TimesTen In-Memory Database Installation Guide*. If the character sets are the same, contact TimesTen Customer Support.
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 database 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 database. Use a port number for the replication database that does not clash with the main daemon port.
17020	Failed to check CG state for duplicate	TimesTen failed to check the state of cache groups in the source database. See the message log for the cause of the failure.
17021	Failed to reset Autorefresh bookmark	As part of the -duplicate initialization, the autorefresh bookmarks for cache groups in the database could not be reset. 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*	An ALTER REPLICATION statement has altered the return service attribute more than once for the same database.
17023	Store *store_name* is used in a route clause but does not exist	A ROUTE clause quoted a non-existent database. Retry the operation with a different ROUTE name.
17024	ROUTE master *master_name* subscriber *subscriber_name* hostname *host_name* not found	A non-existent ROUTE name was specified in a statement that is attempting to ADD or DROP a route to a scheme. Retry the operation with a different ROUTE name.
17025	ROUTE master *master_name* subscriber *subscriber_info* *subscriber_info* cannot be created because a Master->Subscriber relationship does not exist between these stores	An attempt was made to set up a replication ROUTE for a non-existent master/subscriber relationship. Retry the operation with a different ROUTE name.

Error number	Error or warning message	Details
17026	ROUTE master *master_name* subscriber *subscriber_info* *subscriber_info* cannot be created because an entry for this route already exists with priority *priority_level*, or is in the process of being created	The ROUTE name already exists. Retry the operation with a different ROUTE name or wait for the process that uses the specified ROUTE name to complete.
17027	ROUTE master *master_name* subscriber *subscriber_info* *subscriber_info* cannot be created because an entry for this route already exists using interface *interface*, or is in the process of being created	The ROUTE name already exists. Retry the operation with a different ROUTE name or wait for the process that uses the specified ROUTE name to complete.
17028	The PRIORITY attribute must be between 1 and 99	The specified PRIORITY value is out of range.
17029	This store (*store_name* on *host_name*) is not involved as a local store in replication scheme *host_name.scheme*	A scheme is attempting to be created on a database that is not involved in the scheme. Retry the operation with the correct database name, or involve the database in the specified scheme.
17031	CONFLICT REPORTING RESUME must be less than CONFLICT REPORTING SUSPEND for STORE *store_name*	The RESUME value must be less than the SUSPEND value for conflict reporting. Retry the operation with a smaller value.
17032	CONFLICT REPORTING RESUME cannot be set without a CONFLICT REPORTING SUSPEND value for STORE *store_name*	You cannot resume conflict reporting without specifying a SUSPEND value. Retry the operation after specifying a SUSPEND value.
17033	CONFLICT REPORTING RESUME or SUSPEND cannot be set for stores in an Active Standby scheme	Conflict resolution cannot be configured in an active standby scheme, therefore trying to supply conflict suspend/resume parameters is invalid.
17034	ASYNCHRONOUS WRITETHROUGH Cache groups cannot co-exist with a replication scheme that uses RETURN TWOSAFE	You cannot have ASYNCHRONOUS WRITETHROUGH cache groups in a replication scheme that uses RETURN TWOSAFE.
17035	CONFLICT SUSPEND/RESUME cannot be used with DATASTORE level replication or ACTIVE STANDBY schemes	Conflict resolution cannot be configured in a scheme that uses database level replication. Therefore attempting to supply conflict suspend/resume parameters is not allowed.
17036	SYNCHRONOUS WRITETHROUGH cache groups cannot be replicated in an ACTIVE STANDBY scheme. Either DROP or EXCLUDE the cache group for table *owner.table_name*	SYNCHRONOUS WRITETHROUGH cache groups cannot be replicated in an ACTIVE STANDBY scheme.

Error number	Error or warning message	Details
17037	The receiver state in an ACTIVE STANDBY scheme cannot be set to STOP	When the database is involved in an active standby scheme, you cannot call ttrepsubscriberstateset(,,,,2) or specify the utility operation ttRepAdmin -receiver -name rep2 -host somemachine -dsn rep1 -state stop.
17038	The store is not a valid peer	The peer specified is not valid in the replication scheme.
17039	Failed to bind name (name); socket: socket	**Type of Message:** Informational
		Cause: The replication agent cannot bind to the specified host and IP address.
		Impact: The replication agent will try connecting using other network interfaces. If the replication agent cannot connect using the other network interfaces, replication for the peer will not work.
		User Action: Check the error messages to identify a possible cause as to why the bind failed.
17040	Trying to create socket for name on DSN	Trying to create socket on an IP address for the indicated database.
17041	Failed to create Oracle DR scheme	This is a generic error, there is an additional detailed error message concerning the actual failure. Review that message to determine the problem and the fix.
17042	A Cache DR scheme can only be created on an ACTIVE STANDBY SUBSCRIBER	The ttRepAdmin -duplicate -initCacheDR option can only be used when duplicating to an active standby subscriber. You have attempted to create a disaster recovery scheme on a database that is not involved in active standby replication. This is not supported.
17043	Failed to initialize Oracle DR tables	The initialization of the Oracle database Disaster Recovery tables failed. In the user error log, review any error messages that were returned during the operation in which the error occurred for more details. Destroy the destination database and attempt to re-initialize the disaster recovery process.
17044	Exited early because could not get cache group information	The disaster recovery process exited early because it could not get required information. In the user error log, review any error messages that were returned during the operation in which the error occurred for more details. Destroy the destination database and attempt to re-initialize the disaster recovery process.
17045	Could not truncate cached tables on Oracle DR site	During disaster recovery, the replication agent could not truncate any cached tables. In the user error log, review any error messages that were returned during the operation in which the error occurred for more details. Destroy the destination database and attempt to re-initialize the disaster recovery process.

Error number	Error or warning message	Details
17046	`Could not flush data to Oracle DR site`	During disaster recovery, the replication agent could not flush data to the Oracle database. In the user error log, review any error messages that were returned during the operation in which the error occurred for more details. Review any error messages that were returned during the operation in which the error occurred for more details. Destroy the destination database and attempt to re-initialize the disaster recovery process.
17047	`Could not commit data to the Oracle DR site`	During disaster recovery, the replication agent could not commit data to the Oracle database. In the user error log, review any error messages that were returned during the operation in which the error occurred for more details. Destroy the destination database and attempt to re-initialize the disaster recovery process.
17048	`Could not create thread to initialize the Oracle DR site`	During disaster recovery, the replication agent could not create the thread to initialize the Oracle database. In the user error log, review any error messages that were returned during the operation in which the error occurred for more details. Destroy the destination database and attempt to re-initialize the disaster recovery process.
17049	`Error invalidating store due to scheme inconsistency`	To correct this problem, verify that the schemes involved in this operation are identical.
17050	`Conflict Replication Reporting starting`	**Type of Message:** Informational **Cause:** Replication conflict reporting suspend/resume is configured on your system and the conflict rate has fallen below the resume value. **Impact:** Replication conflict reports are now being sent. **User Action:** None. For more information on how to configure suspend and resume values for replication conflict reporting, see "Suspending and resuming the reporting of conflicts" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
17051	Conflict Replication Reporting stopping	**Type of Message:** Informational
		Cause: Replication conflict reporting suspend/resume is configured on your system and the conflict rate exceeds the suspend value.
		Impact: Replication conflict reports are now suspended.
		User Action: None.
		For more information on how to configure suspend and resume values for replication conflict reporting, see "Suspending and resuming the reporting of conflicts" in the *Oracle TimesTen In-Memory Database Replication Guide*.
17052	System table *owner.table* cannot be excluded from replication	System tables cannot be modified by users and must be included in the replication process.
17053	Table *table_name* is replicating in relaxed mode.	**Type of Message:** Informational
		Cause: The master table being replicated is structurally different than the subscriber.
		Impact: Extra performance overhead is required to achieve replication for this table.
		User Action: You can improve replication performance if the table structure on both sides of the replication scheme is the same. Adjust the table structure on one side of the replication scheme so that it matches the table structure of its peer. For more information, see "Altering a replicated table in a classic replication scheme" in the *Oracle TimesTen In-Memory Database Replication Guide*.
17055	Asynchronous Materialized View Log Table *schema.table* cannot be included in a Replication Scheme.	An explicit ALTER replication include table was used on an Asynchronous materialized view log table.
17056	Dynamic Cache Group Table *schema.table* can only be replicated in an ACTIVE STANDBY PAIR replication scheme	A dynamic cache group can only be replicated if the replication scheme is an active standby pair. Dynamic cache groups cannot be replicated with regular replication.
17057	PROPAGATE cache groups cannot be replicated in an ACTIVE STANDBY scheme. Either DROP or EXCLUDE the cache group for table *schema.table*	User managed cache groups with propagated tables are not allowed in active standby replication schemes. You must either drop the cache group or exclude it from the replication scheme.
17058	Table *owner.table* cannot be part of a replication scheme when parallel mode replication is configured because it is defined with aging	You cannot include a table in a replication scheme when it has aging configured and ReplicationApplyOrdering=1.

Error number	Error or warning message	Details
17059	Replicated INCLUDE TABLE failed for (owner.table) because the table is not empty	You attempted a replicated ALTER STANDBY PAIR...INCLUDE TABLE and the table is not empty.
17060	DDLReplicationAction can only be set to INCLUDE or EXCLUDE on the ACTIVE store in an ACTIVE STANDBY PAIR replication scheme	You attempted ALTER SESSION...SET DDL_REPLICATION_ACTION on a database that is not active in the active standby pair replication scheme.
17061	When DDLReplicationAction = 'INCLUDE' tables must be created with a primary key or a unique constraint on non-nullable column(s)	You specified a DDL_REPLICATION_ACTION that requires the table(s) to be created with an index.
17062	DDLReplicationAction and DDLReplicationLevel can only be set on a store with an ACTIVE STANDBY PAIR scheme	You attempted to use the ALTER SESSION statement to set DDLReplicationAction and DDLReplicationLevel on a database that is not part of an active standby pair scheme.
17063	CREATE INDEX can only refer to empty tables when DDLReplicationLevel > 1	When DDLReplicationLevel is greater than 1, CREATE INDEX is replicated. However, your tables must be empty.
17064	CREATE AS SELECT cannot be used when DDLReplicationLevel > 1	When DDLReplicationLevel is greater than 1, CREATE TABLE is configured for replication. However, CREATE TABLE AS SELECT is not supported.
17065	Action not permitted because DDLReplicationLevel > 1 and the store is not active	DDL action is not permitted because DDLReplicationLevel is greater than 1 and the database is not active.
17066	Create Table not permitted without ADMIN privilege when DDLReplicationLevel > 1 and DDLReplicationAction is INCLUDE	When DDLReplicationLevel is greater than 1 and when DDLReplicationAction is set to INCLUDE, then ADMIN privilege is required when replicating CREATE TABLE statements.
17067	Table table was truncated before inclusion into the ACTIVE STANDBY PAIR replication scheme	When ALTER ACTIVE STANDBY PAIR...INCLUDE is executed, the table contents are truncated on the standby and subscriber(s) databases.
17068	Invalid value (value) for ttDurableWhenAgentStoppedSet. Valid values are 0 and 1.	You specified an invalid value for ttDurableWhenAgentStoppedSet.
17069	stmt is not permitted on the standby in an ACTIVE STANDBY PAIR scheme	The statements CREATE/DROP SYNONYM, GRANT/REVOKE, or CREATE/ALTER/DROP USER are not permitted on the standby in an ACTIVE STANDBY PAIR scheme.

Error number	Error or warning message	Details
17071	XLA encountered an error during start-up: *error_number*	**Type of Message:** Error **Cause:** The replication agent cannot correctly start the XLA thread because an error was encountered. **Impact:** The replication agent will periodically try to start the XLA thread until the specified error is fixed. **User Action:** Diagnose and troubleshoot the specified TimesTen error.
17072	Failed to read Sync CTN Reset value	**Type of Message:** Error **Cause:** The state of the transmitter has changed. The active node is invalid, causing the standby node to become the new active node, but the replication agent of the original active node is still running. The original active node switches to a standby state and no new transactions are being issued on the new active node. **Impact:** If the blocking situation persists, the new standby node can get stuck in a disconnection and reconnection cycle. The threads will attempt to recycle and self-correct the error. **User Action:** Review the error message for possible fixes.
17073	Restarting subscriber transmitters due to Sync CTN Reset	**Type of Message:** Informational **Cause:** The state of the transmitter has changed, but the commit ticket number sync reset value has been properly recycled. **Impact:** The replication agent is restarting the subscriber transmitter threads. **User Action:** None.
17075	Read-write lock object not initialized	**Type of Message:** Warning **Cause:** A timeout occurred while trying to acquire a read-write lock. **Impact:** The user error log may contain an additional error message. **User Action:** Review the user error log for error messages indicating a possible replication agent failure in acquiring a resource. Attempt the fixes for the replication agent failure error messages.

Error number	Error or warning message	Details
17076	`Timeout while retrieving peer information`	**Type of Message:** Warning **Cause:** A lock could not be acquired before the timeout expired. **Impact:** Peer information cannot be obtained. The user error log may contain an additional error message. **User Action:** Review the user error log for error messages indicating a possible replication agent failure in acquiring a resource. Attempt the fixes for the replication agent failure error messages.
17077	`DeadLock while retrieving peer information`	**Type of Message:** Warning **Cause:** A deadlock occurred while trying to acquire a lock. **Impact:** Peer information cannot be obtained. The user error log may contain an additional error message. **User Action:** Review the user error log for error messages indicating a possible replication agent failure in acquiring a resource. Attempt the fixes for the replication agent failure error messages.
17078	`Mutex abandoned while retrieving peer information`	**Type of Message:** Warning **Cause:** Mutual exclusion was abandoned while attempting to acquire a lock. **Impact:** Peer information cannot be obtained. The user error log may contain an additional error message. **User Action:** Review the user error log for error messages indicating a possible replication agent failure in acquiring a resource. Attempt the fixes for the replication agent failure error messages.
17079	`Invalid SQL command at :`*`function_name`*	**Type of Message:** Error **Cause:** The replication agent attempted to execute an invalid SQL command. **Impact:** The replication agent cannot update the metadata. The replication agent will retry the operation. **User Action:** None.

Error number	Error or warning message	Details
17080	Read Only Cache Group *cache_group* must first be excluded from the A/S pair replication scheme before executing this operation.	**Type of Message:** Error **Cause:** You attempted to drop a read-only cache group that is part of a replication scheme. **Impact:** TimesTen cannot drop the read-only cache group. **User Action:** Exclude the read-only cache group from the replication scheme by using the EXCLUDE parameter of the ALTER ACTIVE STANDBY PAIR SQL statement. Then, retry dropping the read-only cache group. For more information on the ALTER ACTIVE STANDBY PAIR SQL statement, see "ALTER ACTIVE STANDBY PAIR" in the *Oracle TimesTen In-Memory Database SQL Reference*.
17081	Failover message sent to client *connection_info*	**Type of Message:** Informational **Cause:** An application requested failover support from the replication agent for an active standby pair replication scheme. Once the replication agent determines that the application is connected to a database other than the active master database, the replication agent sends a client failover message to the application. **Impact:** None. **User Action:** None. For more information on active standby pair replication schemes, see "Active standby pair with read-only subscribers" in the *Oracle TimesTen In-Memory Database Replication Guide*.
17083	XLA is not permitted with ReplicationApplyOrdering = 2	**Type of Message:** Error **Cause:** You attempted to create a XLA bookmark in a replication scheme using automatic replication with disabled commit ordering (ReplicationApplyOrdering=2). **Impact:** TimesTen cannot perform the operation. **User Action:** Set the ReplicationApplyOrdering attribute to 0 or 1 and retry the operation. For more information on XLA bookmarks, see "About XLA bookmarks" in the *Oracle TimesTen In-Memory Database C Developer's Guide*. For more information on parallel replication and the ReplicationApplyOrdering attribute, see "Configuring parallel replication" in the *Oracle TimesTen In-Memory Database Replication Guide* and "ReplicationApplyOrdering" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
17084	Only ACTIVE STANDBY pair replication schemes are permitted with ReplicationApplyOrdering = 2	**Type of Message:** Error **Cause:** You attempted to create a replication scheme that is not supported while using automatic replication with disabled commit ordering (ReplicationApplyOrdering=2). **Impact:** TimesTen cannot perform the operation. **User Action:** Set the ReplicationApplyOrdering attribute to 0 or 1 and retry the operation. For more information on parallel replication and the ReplicationApplyOrdering attribute, see "Configuring parallel replication" in the *Oracle TimesTen In-Memory Database Replication Guide* and "ReplicationApplyOrdering" in the *Oracle TimesTen In-Memory Database Reference*.
17085	No return services are permitted with ReplicationApplyOrdering = 2	**Type of Message:** Error **Cause:** You attempted to create a replication scheme with return services enabled while using automatic replication with disabled commit ordering (ReplicationApplyOrdering=2). **Impact:** TimesTen cannot perform the operation. **User Action:** Set the ReplicationApplyOrdering attribute to 0 or 1 and retry the operation. For more information on parallel replication and the ReplicationApplyOrdering attribute, see "Configuring parallel replication" in the *Oracle TimesTen In-Memory Database Replication Guide* and "ReplicationApplyOrdering" in the *Oracle TimesTen In-Memory Database Reference*.
17086	ASYNCHRONOUS WRITETHROUGH Cache groups are only permitted with ACTIVE STANDBY PAIR replication schemes.	**Type of Message:** Error **Cause:** You attempted to create an asynchronous writethrough (AWT) cache group in a replication scheme that does not support AWT cache groups. **Impact:** TimesTen cannot perform the operation. **User Action:** Set an active standby pair replication scheme and retry the operation. For more information on AWT cache groups, see "Asynchronous writethrough (AWT) cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on active standby pair replication schemes, see "Active standby pair with read-only subscribers" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
17087	CTN Wait Error *wait_type*	**Type of Message:** Informational
		Cause: The replication agent aborted a parallel replication wait. This message is followed by another message that describes the details of the error.
		Impact: Depending on the cause, the impact may vary.
		User Action: Review the daemon log for any additional error messages to determine a cause for this error. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
19000	Open of document *document_name* failed	The TimesTen Web server 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 *error_number*	The TimesTen Web server 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 Web server 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 Web server 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 Web server is not executable. 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 Web server 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 filed perl in *path*	The TimesTen Web server was unable to find the version of PERL with the product. Check your installation.
19007	Web server *system_call* failed, error *error_number*	The TimesTen Web server 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 Web server was unable to determine file information for an HTTP document.
19010	Web server denying connection from *host_name* (*IP_address*)	The TimesTen Web server is denying access from the indicated host. The Web server configuration file can be used to control access.

Error number	Error or warning message	Details
19011	Authorization failure from `file_name`	The TimesTen Web server 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 Web server 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 Web server's password file. Correct the entry and try again.
19014	TimesTen web server internal error	The TimesTen Web server 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 backward compatibility. The feature may be removed in a future release. The `feature_details` 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 database to its most current state. This recovery process can be time-consuming. To avoid it, cleanly disconnect from the database when possible. For example, do not exit from a TimesTen application without first waiting for all connections to disconnect. Use signal handlers to catch signals that set a variable indicating that all connections must disconnect.
20101	Data loss because redo logging was disabled. Connect with ttAdmin -ramLoad -force.	**Type of Message:** Error **Cause:** The connection attempt failed because an irrecoverable error occurred while redo logging was disabled. **Impact:** Any changes made to the database while redo logging was disabled have been lost. **User Action:** To permit new connections, explicitly load the database into memory. Load the database into memory using `ttAdmin -ramLoad -force`. For more information, see "ttAdmin" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
30103	SQLParamOptions is not supported with result-set returning statements	An attempt was made to execute a SELECT statement using an array of parameters as indicated by SQLParamOptions. Batch execution using arrays of parameters is supported only with INSERT, UPDATE and CREATE VIEW statements.
30104	SQLBindParameter must be called because the ConnectionCharacterSet attribute was changed	**Type of Message:** Error **Cause:** The ConnectionCharacterSet value was changed after the parameters were bound to the statement. **Impact:** If execution continues, incorrect data could be passed in the parameter values due to character set mismatch. **User Action:** To allow correct character set conversion, rebind the statement parameters using the SQLBindParameter function. For more information, see "SQLBindParameter function" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
30105	Transaction must roll back	**Type of Message:** Error **Cause:** A TimesTen client server failover to the new active (original standby node) occurred. **Impact:** The current transaction must be rolled back or committed before further operations can be done. **User Action:** Call ROLLBACK on the current connection handle with the SQLTransact call. For more information, see "Making and committing changes to the database" in the *Oracle TimesTen In-Memory Database C Developer's Guide*.
30106	Transaction status unkown	**Type of Message:** Error **Cause:** The current transaction cannot be committed for unknown reasons. **Impact:** The current transaction is assumed to have rolled back and that the operations from the transaction are lost. **User Action:** Open a new transaction to complete new operations.

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. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
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 disconnects and then reconnects and retries 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 *portID* as ID *selfID*. 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.

Error number	Error or warning message	Details
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. Contact TimesTen Customer Support.
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 *thread_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 lot 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 the Oracle database. 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 operation 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 number *number* failed for cache groups with interval *msecs* ms after *number* retries.	An autorefresh for the indicated interval has failed. This message usually follows another message that describes the details about the failure. The autorefresh operation is being retried automatically.

Error number	Error or warning message	Details
40036	Create/alter cache group failed because autorefresh for cache group *cache_group_name* is in the middle of shutting down	CREATE CACHE GROUP and ALTER CACHE GROUP 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 CREATE CACHE GROUP or ALTER CACHE GROUP 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 CREATE CACHE GROUP or ALTER CACHE GROUP 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-thread_name* 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 database because the data source or driver was not specified. Check the system DSN settings for this database.
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 database because the data source or driver was not specified. Check the system DSN settings for this database.
40046	Error: *mesage*, 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. Contact TimesTen Customer Support.
40048	Call to SQLError failed with SQL_INVALID_HANDLE.	Internal Error, the ODBC statement, connection, or environment handle passed to SQLError was invalid. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
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. Contact TimesTen Customer Support.
40050	Detected invalid data store.	TimesTen database has been invalidated, Cache agent shuts down, then restarts. Try the operation again.
40051	Cannot attach to Oracle Server (Oracle error ORA-*number*). OracleNetServiceName = *onet_svc_name*, ORACLE_HOME = *Oracle_Home*	The cache agent cannot connect to the Oracle database. The Oracle database error code is included in the message. Refer to "Unable to resolve Oracle Service Name" and "Unable to validate the Oracle database username and password" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40052	Cannot start an Oracle session (Oracle error ORA-*code*). uid = *user_name*. pwd is hidden, TNS_ADMIN = *tns_path* , ORACLE_HOME= *Oracle_install_dir*	Cannot start an Oracle database session. The Oracle database error code and the intended user name are included in the message. The password is hidden for security reasons. Refer to "Unable to resolve Oracle Service Name" and Unable to validate the Oracle database username and password" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40053	OCIEnvCreate failed. Return code *code_number*	Calling OCIEnvCreate fails. The return code is included in the message. Verify the Oracle database client installation. Refer to "Unable to resolve Oracle Service Name" and Unable to validate the Oracle database username and password" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40054	Could not login to Oracle. TNS timeout occurred.	Received a TNS timeout error while trying to login to the Oracle database. Check the Oracle database 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. Refer to "Unable to resolve Oracle Service Name" and Unable to validate the Oracle database username and password" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40055	Delete query too long during unload.	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.
40056	Not connected to Oracle during load	Internal error. A connection to the Oracle database was not established before the loading operation. Contact TimesTen Customer Support.
40057	Table name too long: *table_name*.	Internal error. The table name is too long. A table name cannot exceed 30 characters.

Error number	Error or warning message	Details
40058	Select query 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.
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 the Oracle database.
40061	Error executing Oracle statement: *statement*	There was an error while executing the specified SQL statement on the Oracle database.
40062	Column count does not match for cached table	The Oracle database table columns do not match the cached table columns. Check to determine if the Oracle database 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 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 database change log for autorefresh. The failing query and the current log content are specified in this message. Ensure that the Oracle database table objects for autorefresh have not been removed and the autorefresh user has not been changed since the creation of the cache group.

Error number	Error or warning message	Details
40070	Timeout while dropping an Oracle table. The query is *query*	A timeout occurred while dropping an Oracle database table. The optional failed query is specified in the message. This may occur in response to either a ALTER CACHE GROUP or a DROP CACHE GROUP operation when the table is busy. The drop is 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. Contact TimesTen Customer Support.
40073	Could not drop the Oracle objects. Either an Autorefresh uid was not provided or the uid was invalid.	Failed to drop Oracle database objects for autorefresh because either the cache administration user ID was not given or the UID was incorrect. Ensure that 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 database 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. Contact TimesTen Customer Support.
40079	Failed to malloc size *memory_size*. Please free system resources.	Failed to malloc memory of the indicated size.
40081	Failed to get Oracle username and password: *error_number*	Failed to get the Oracle database user name 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. Contact TimesTen Customer Support.
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. Contact TimesTen Customer Support.
40086	Could not allocate Oracle statement handle	Error allocating Oracle database statement handle. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
40087	`Could not allocate TimesTen statement handle`	Error allocating a TimesTen statement handle. Contact TimesTen Customer Support.
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. Contact TimesTen Customer Support.
40089	`Log reader getLmLock returned OCI_NO_DATA`	Internal error. `getLmLock` should have returned at least one row, but was unable to do so. Contact TimesTen Customer Support.
40090	`Log reader getLmUserCount returned OCI_NO_DATA`	Internal error. `getLmUserCount` should have returned at least one row, but was unable to do so.Contact TimesTen Customer Support.
40091	`Log reader getLmUserCount returned OCI_NO_DATA`	Internal error. `getLogLimit` should have returned at least one row, but was unable to do so. Contact TimesTen Customer Support.
40092	`Oracle type type not supported`	Internal error. Oracle database type for the primary key is not supported. Contact TimesTen Customer Support.
40093	`Could not parse redo SQL cscn:cscn_name, SQL: statement`	Internal error. Parsing of redo SQL statement failed. Contact TimesTen Customer Support.
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. Contact TimesTen Customer Support.
40096	`Log reader initialization failed`	Log reader allocation failed. Contact TimesTen Customer Support.
40108	`Could not derive the data store file name. Data store path = path_name`	Internal Error. TimesTen could not derive the database name from the provided database input parameter to cache agent. Contact TimesTen Customer Support.
40114	`Connection to Oracle has 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 the Oracle database. 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 the Oracle database. 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 "Unable to resolve Oracle Service Name" and "Unable to validate the Oracle database username and password" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
40115	No cache groups will be autorefreshed until a connect to Oracle can be established. Will try to connect to Oracle silently every *seconds* seconds. Additional error information: *message*.	At cache agent startup time, the cache agent cannot connect to the Oracle database. The cache agent keeps trying to connect to the Oracle database.
40116	Fatal error occurred while trying to connect to Oracle. Check the Oracle Id, UID, PWD and 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 the Oracle database. 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, and the status of the Oracle database 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: *num*. 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 terminated 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 the specified cache group. Contact TimesTen Customer Support.
40123	Autorefresh trigger *trigger_name* 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 database object validation for cache groups finds that the Oracle database trigger *trigger_name* 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 "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
40124	Could not find autorefresh trigger *trigger_name*. The cache group *owner.cache_group_name* in data store *data_store_name* will not be refreshed.	Autorefresh Oracle database object validation for cache groups finds that the Oracle database trigger *trigger_name* on the indicated table of the cache group was not found 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 "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40125	Could not find the Oracle autorefresh *object_type object_name* for table *table_name*. The cache group *cache_group_name* cannot be refreshed in any 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 "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40126	Autorefresh *obj_type obj_name* for table *table_name* is not valid on Oracle. The cache group *cache_group_name* will not be refreshed.	Autorefresh Oracle database object validation for a cache group table found an invalid status for an 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 "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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	Autorefresh object validation for the cache group found an incompatibility between the cache group *objectID* and the *objectID* on the Oracle database. 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 "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
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	Autorefresh object validation for the cache group found an incompatibility between the create date for the specified table in a TimesTen database and that on the Oracle database. 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 "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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	The error occurs when autorefreshing Oracle database object validation for the cache group. A change log table for table *table_name* is older than the table itself. 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 ""Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database user count row for the indicated table in *user_count_table_name*. Any autorefresh cache group containing the specified table is not refreshed. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 *user_count_table_name* for the specified cache group table. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
40143	Could not find table *table_name* for cache group *cache_group_name* in Oracle. User *user_name* may not have privileges. The cache group will not be refreshed.	A problem occurred while trying to validate an autorefresh Oracle database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40146	An internal autorefresh structure has not been initialized.	A problem occurred while trying to validate an autorefresh Oracle database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database object. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 database name. Contact TimesTen Customer Support.
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 database connection.
40158	() failed. uid *user_ID*.	Internal error. The cache agent failed to set the user ID of the session. Contact TimesTen Customer Support.
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 database and TimesTen installations. On UNIX systems, ensure that the ORACLE_HOME environment variable is set correctly.

Error number	Error or warning message	Details
40160	Clean up of autorefresh Oracle objects failed. snprintf returned *value* with buffer length *length*.	This is an internal error that occurred during clean up of autorefresh Oracle database objects. Contact TimesTen Customer Support.
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. Contact TimesTen Customer Support.
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. Contact TimesTen Customer Support.
40164	OCIErrorGet failed with OCI_INVALID_HANDLE	This is an internal error. The OCIErrorGet call failed to get more diagnostic information after an OCI call failed. The OCI handle is invalid. Contact TimesTen Customer Support.
40165	Unique Constraint is violated while loading table *owner.table_name*	**Type of Message:** Error **Cause:** The unique constraint has been violated in TimesTen during a LOAD CACHE GROUP, MERGE or AUTOREFRESH operation on the indicated table. **Impact:** The update to the TimesTen database may fail. **User Action:** Unload the cache group and then reload it. For more information, see "Unloading a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. If the error still occurs, contact TimesTen Customer Support.
40166	Required table *table_name* does not exist on Oracle	Autorefresh Oracle database object validation detected that the indicated table does not exist. The log table garbage collector cannot work. To recreate the tables, recreate the autorefresh cache group. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
40167	*owner.table_name* table on Oracle does not have required lock rows	Autorefresh Oracle database object validation detected that the indicated table does not exist. The log table garbage collector cannot work. To recreate the rows, recreate the autorefresh cache group. For details on fixing this problem, refer to the "Validate autorefresh for the Oracle database objects" section in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 CREATE CACHE GROUP or ALTER CACHE GROUP 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.

Error number	Error or warning message	Details
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 CREATE CACHE GROUP or ALTER CACHE GROUP 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 database 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 database failover event. Contact TimesTen Customer Support.
40177	Could not re-establish a connection in *num* minutes. Failover will not take place	The connection to one of the Oracle RAC nodes failed and the cache agent could not failover to another Oracle 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 Oracle RAC failover callback function. No action is needed if the application is not running against an Oracle RAC server. If you are running against an Oracle RAC server, verify that the OCI client is the latest 9*i* or 10*g* client and that TAF is enabled.
40179	OCIHandleAlloc() failed.	The cache agent may have run out of memory or another system resource. Contact TimesTen Customer Support if the problem persists.
40180	Unexpected row count. Expecting *count*. Got *count*.	Oracle database 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, contact TimesTen Customer Support.
40181	*object* could not be found on Oracle. Check that *user* has *privileges* on *Oracle_object*	The Oracle database object could not be found. Verify that the specified Oracle database user has the correct privileges on the object.
40182	Timestamp descriptor alloc failure	The call to OCIDescriptorAlloc failed.
40183	Could not retrieve aging lifetime for cache group with cgID *ID*	Internal error. The cache agent could not retrieve the aging lifetime for cache group from the TimesTen database. This message usually follows another message that describes the details about the failure. Load/refresh cache group fails.
40185	Can't initialize marker structure for autorefresh thread	The cache agent failed to initialize a new data structure used by the log table marker for the autorefresh thread.

Error number	Error or warning message	Details
40186	`Can't initialize tablespace full alert writer structure`	The cache agent failed to initialize a new data structure used by tablespace full alert writer.
40187	`Can't initialize tablespace full alerter  structure`	The cache agent failed to initialize a new data structure used by tablespace full `alerter`.
40188	`No cache groups will be autorefreshed since the data store is marked "not alive" and the recovery method is "none."`	The database is dead and cannot be refreshed.
40189	`Failure_msg_Optional_msg Cache Agent for datastore datastore will be restarted.`	**Type of Message:** Error **Cause:** *Failure_msg* is a message that details the type of failure and where the failure occurred. *Optional_msg* is an optional error message that further describes the problem. **Impact:** TimesTen attempts to restart the Cache Agent for the database. **User Action:** None.
40190	`Failure_msg_Optional_msg Cache Agent for datastore datastore cannot be started.`	**Type of Message:** Error **Cause:** *Failure_msg* is a message that details the type of failure and where the failure occurred. *Optional_msg* is an optional error message that further describes the problem. **Impact:** The cache agent for the database cannot be started. **User Action:** Fix the problem described by *failure_msg* and *optional_msg* before the cache agent for the database can be started.
40191	`Can't retrieve log space statistics from the user_count table`	**Type of Message:** Error **Cause:** The schema of the `TT_version_USER_COUNT` table is incorrect. **Impact:** The cache agent cannot retrieve log space monitoring statistics. **User Action:** Contact TimesTen Customer Support.
40192	`Could not find entry for table cached_table (obj_id_of_cached_table) in TT_xx_LOG_SPACE_STATS. Log space monitoring will not be performed.`	**Type of Message:** Error **Cause:** The cache agent cannot find any information about the specified cached table in the `TT_xx_LOG_SPACE_STATS` table. **Impact:** The cache agent cannot perform log Space monitoring for objects related to the specified cached table. **User Action:** Contact TimesTen Customer Support.

Error number	Error or warning message	Details
40193	The log space stats table `TT_`*`xx`*`_LOG_SPACE_STATS` on Oracle database instance *oracle_instance* was not found. Log space monitoring will not be performed.	**Type of Message:** Error **Cause:** The cache agent cannot find the `TT_`*`xx`*`_LOG_SPACE_STATS` table in the Oracle database. **Impact:** The cache agent cannot perform log Space monitoring. **User Action:** Contact TimesTen Customer Support.
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 `LOAD CACHE GROUP` 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 `OCIDescriptorFree` 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 `LOAD CACHE GROUP` 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 database objects. If necessary, clean up the objects manually.
44010	Warning: cmd: *command*	The cache agent encountered an 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 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 must be fully refreshed because log table was truncated. For details on fixing this problem, see "Incremental autorefresh becomes full autorefresh" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
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. Check the status of the Oracle instance.	The cache agent encountered this error after either a CREATE CACHE GROUP or ALTER CACHE GROUP statement because the operation came too soon after the cache agent started or the cache agent could not establish a connection to the Oracle database. 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. Refer to the "Unable to resolve Oracle Service Name" and "Unable to validate the Oracle database username and password" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
44023	Cache agent was successfully able to connect to Oracle after *num_attempts* failed attempts	The cache agent was initially having trouble connecting to the Oracle database 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 *number* tables yet the refresher has *number* tables.	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
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 Customer Support.
44030	Autorefresh log table *table_name* is empty. The autorefresher will perform a full refresh on all datastores in order to recovery.	For details on fixing this problem, see "Incremental autorefresh becomes full autorefresh" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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, see "Incremental autorefresh becomes full autorefresh" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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, see "Incremental autorefresh becomes full autorefresh" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 Customer Support 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 ALTER CACHE GROUP operation.Contact TimesTen Customer Support if the problem does not fix itself by the next validation cycle.

Error number	Error or warning message	Details
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 ALTER CACHE GROUP operation.Contact TimesTen Customer Support 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, see "Incremental autorefresh becomes full autorefresh" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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, see "Incremental autorefresh becomes full autorefresh" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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 Customer Support.
44040	The log table marker is not making progress for tables in refresh interval *msecs* 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 Customer Support.
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 *number* times without waiting for next autorefresh interval	Ensure that there are no open DDL transactions on the cache group.

Error number	Error or warning message	Details
44042	Two-safe transaction was committed locally because the commit on the remote node did not complete within timeout interval of *timeout_interval* seconds.	The cache agent forced a commit of a TWOSAFE transaction because it did not receive an acknowledgment. This causes replication subscribers to be behind.
44043	Entry for object id *object_name* exists in "TTC_FT_OBJECT_PREFIX"agent_status but missing from "TTC_FT_OBJECT_PREFIX"user_count table	For details on fixing this problem, see "Validate autorefresh for the Oracle database objects" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
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, see "Incremental autorefresh not progressing" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
44045	pthread_cond_timedwait failed with return value *return_value*	Internal error. An operating system call failed.
44046	Failover error. Retrying...	**Type of Message:** Error **Cause:** A TimesTen operation meant to handle Oracle database failover was unsuccessful. **Impact:** The cache agent is retrying the operation. **User Action:** None.
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, see "Validate autorefresh for the Oracle database objects" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
44051	Binding the database column with the output C type + precision can result in overflow errors or truncation warnings.	Internal error.
44053	OCI function pointers initialization warning: *warning*. No action needed.	This warning can occur during cache agent initialization when a function was not found in the client library. No action is needed as the system will not use that function. Check that the OCI client library version is 11.1 or later.

Error number	Error or warning message	Details
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 *major.minor.patch.buildtime.builddate.*
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 database 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 the Oracle database.
47017	Disconnected from Oracle	Informational message. Disconnected from the Oracle database.
47018	*name interval_value*L: 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.
47029	refresher started for interval *interval_value* milliseconds	Informational message. The autorefresh handler thread for the specified interval has started.

Error number	Error or warning message	Details
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	OracleNetServiceName not specified. Will not be able to perform autorefreshes.	Informational message. The OracleNetServiceName 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 the Oracle database.
47045	Connected to Oracle	Informational message. The cache agent has connected to the Oracle database.
47046	Already connected for caching for *data_store_name*	Informational message. The cache agent is using an existing connection to the Oracle database to operate on database.
47047	Free error handle *handle_name*	Informational message. The cache agent is freeing an OCI error handle used when setting up a connection to the Oracle database.
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 database SQL statement.
47049	Performing a full refresh with cache group root table: *owner*.*table*	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. The Oracle database 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.

Error number	Error or warning message	Details
47056	Incremental autorefresh started for table: *owner*.*table_name* soLog(*first_refresh_row*), eoLog(*last_refresh_row*).	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 database object is being used by other user. The operation is retried in the indicate number of milliseconds.
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 database SQL statement has been successfully executed.
47060	Performing a full refresh on subtree with root: *owner*.*table*	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: *statement*	The cache agent encountered an error while preparing the specified SQL statement on the Oracle database.
47062	Rowid was 0 for cascadeUpDelete on table: *table*	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 database objects that were used by autorefresh.
47065	Successfully executed Oracle SQL statement: *statement*	Informational message. The cache agent has successfully executed the indicated Oracle database SQL statement.
47066	Cleanup of the Oracle objects completed	Informational message. The cache agent has finished cleaning up Oracle database objects that were used by autorefresh.
47067	Lost connection to Oracle -- shutting down the cache agent, cmd: *command*	**Type of Message:** Informational **Cause:** The Oracle database connection was lost while executing the indicated command. **Impact:** The cache agent is shutting down and restarting. **User Action:** If the cache agent does not start automatically, restart it manually. For more information, see "Starting the cache agent" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
47070	No new connection during shutdown	Informational message. A request of a new TimesTen/Oracle database 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.

Error number	Error or warning message	Details
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 the Oracle database while the cache agent is 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 number *number* succeeded for interval *msecs* milliseconds	Informational message. Autorefresh for interval *msecs* succeeded.
47084	ftSchedulerGetRefreshStats: cannot 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* 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 database object to come active. The cache agent retries the operation in the indicated number of minutes.
47087	Cache agent refreshed cache group *owner*:*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 noticed that the Oracle database table has been altered after an autorefresh cache group has been defined on it. As a result, the cache group may not refresh correctly.

Error number	Error or warning message	Details
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 database objects for tracking changes for the indicated cache group.
47094	*status* 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	*status* 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	*status* 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 autorefresher was not able to get the necessary locks to mark the log tables. Another autorefresher may be marking the logs. The autorefresher is skipping this step and move on to performing the autorefresh. The negative side effect of this is that the autorefresher 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.

Error number	Error or warning message	Details
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*object*_L where logseq < *log_sequence* (Min logseq was *min_log_sequence*)	Informational message. The garbage collector deleted said number of rows.
47113	Log Table Marker marked *number* rows of log table "TTC_FT_OBJECT_PREFIX"*object_*L with logseq *next_log_sequence* through *last_log_sequence*	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 the Oracle database.
47118	Starting autorefresh number *number* for interval *msecs* ms	Informational message. The cache agent is starting an autorefresh with the specified autorefresh interval.
47119	Autorefresh number *number* finished for interval *msecs*ms *status*	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

Error number	Error or warning message	Details
47125	Autorefresh thread for interval *msecs*ms is connected to instance id *ID*. Server handle *handle_name*	Informational message. The autorefresh thread for cache groups with the specified autorefresh interval has connected to the Oracle database.
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 is not autorefreshed.
47136	The cache agent hasn't fully initialized yet. The cache group *cache_group_name* will be refreshed after initialization is complete.	**Type of Message:** Informational **Cause:** A CREATE or ALTER CACHE GROUP statement was issued before the cache agent had a chance to initialize. **Impact:** The CREATE or ALTER operation takes effect after the initialization completes. **User Action:** None.
47137	Handle invalid due to client failover.	Re-initiate the handle. An automatic failover has occurred.
47138	DDL Lock: *status lock_info*	This is an information message. A DDL lock has been created.

Error number	Error or warning message	Details
47139	DDL Lock: *status lock_info*	This is a warning message. A DDL lock may interfere with operations.
47140	The cache agent information message: Cache group pointer *pointer*; name *name*; state *state_number*; newxpointer *pointer*	There is an internal cache group INFO message in the daemon log.
47141	Refresher thread with id *ID_number* and interval *interval_amount* ms with bejoined.	There is an internal cache group INFO message in the daemon log.
47142	*type* interval: *number* ms, isDead: *number*, first cg: *name*	There is an internal cache group INFO message in the daemon log.
47143	*name* threadId: *number* isDead: *number*, first cg: *name*	There is an internal cache group INFO message in the daemon log.
47150	Heartbeat thread initialization failed.	Cache agent heartbeat thread allocation failed.
47151	Heartbeat thread started. Freq: *number* seconds.	Informational message that the heartbeat thread has started.
47152	Heartbeat thread has exited.	Informational message that the heartbeat thread has exited.
47153	DeadDsMonitor thread initialization failed.	Cache Agent dead database monitor thread allocation failed.
47154	Dead database monitor thread started. Freq: *number* seconds.	Informational message that the dead database monitor thread has started.
47155	Dead database monitor thread has exited.	Informational message that the dead database message has exited.
47156	*message*: *information*	Informational generic dead database message.
47157	No cache groups will be autorefreshed since recovery method is manual. Deadcount=*value*, NumActiveCgs=*value*	You must manually refresh the indicated cache groups.
47158	Cache groups will undergo manual recovery. Deadcount=*value*, NumActiveCgs=*value*	You must manually recover the indicated cache groups.
47159	LogTblMarker thread initalization failed.	Cache agent dead database monitor thread allocation failed.
47160	LogTblGc thread initialization failed.	There is an internal cache group INFO message in the daemon log.
47161	Tablespace full alerter started for with polling period *number* seconds.	Informational message. The thread to monitor the Oracle database tablespace has started.

Error number	Error or warning message	Details
47162	Tablespace full alerter exited	Near tablespace full `alerter` exited message.
47163	*percent* of the tablespace has been used. This exceeds your threshold value of *value*.	Tablespace used above threshold.
47164	*percent* of the tablespace has been used. This exceeds your threshold value of *number*.	Tablespace used above threshold.
47165	The tablespace full alerter requires *privileges* privileges. Alerter is shutting down.	`Alerter` lacks appropriate Oracle database privileges.
47166	Log Table Marker marked *number* rows of log table. "TTC_FT_OBJECT_PREFIX"*name*_L with logseq *start_log_sequence* through *end_log_sequence*	This is an informational message indicating the progress of the autorefresh log marker.
47167	Tablespace full alert writer started for with polling period *number* seconds	Near tablespace full `alerter` writer started message.
47168	Tablespace full alert writer exited	Near tablespace full `alerter` writer exited message.
47169	The tablespace full alert writer requires *name* privileges. Will shut down the alerter.	`Alerter` writer lacks appropriate Oracle database privileges.
47170	Could not determine the size of the Oracle tablespace.	`Alerter` writer could not determine the size o the Oracle database tablespace.
47171	Tablespace full alert writer updated cache statistics table. Tablespace used percentage *percent*	This is an informational message from the progress thread monitoring the Oracle database tablespace. The message indicates how much tablespace is in use.
47172	Heartbeat updated.	Informational daemon message.
47173	Bad Oracle agent tuning parameter read by *name* thread. P1=*value*, P2=*value*, P3=*value*	Informational daemon message.
47174	Autorefresh of cache group *group*, failed *number* time(s) due to lock conflicts.	For this dynamic cache group, autorefresh was unable to complete due to lock conflicts with another application. Indicates the number of times failed due to lock conflicts.
47175	Autorefresh of cache group *cachegroup* has escalated locks, after *number* roll backs.	For this dynamic cache group, a threshold count of autorefresh lock conflict failures was reached. Autorefresh will now escalate its locks and priority to improve its chances of completion.

Error number	Error or warning message	Details
47176	Autorefresh Garbage Collector chunk size is *chunk_size*.	**Type of Message:** Informational
		Cause: The cache agent is starting scheduled garbage collection of autorefresh change log records.
		Impact: Log records representing rows that have been applied from the Oracle database to the TimesTen database are being removed from the change log tables. For more information on log tables, see "Managing a caching environment with Oracle Database objects" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
		User Action: None.
47177	LogSpaceMon thread started. threshold : *thresold_time* seconds action : *action_setting*.	**Type of Message:** Informational
		Cause: The monitoring and management thread for the autorefresh log space started with the specified threshold value and action setting.
		Impact: None.
		User Action: None.
47178	LogSpaceMon thread has exited.	**Type of Message:** Informational
		Cause: The monitoring and management thread for the autorefresh log space exited.
		Impact: None.
		User Action: None.
47179	logSpaceMon thread initialization failed.	**Type of Message:** Error
		Cause: The monitoring and management thread for the autorefresh log space failed to start. Review the daemon log for any additional error messages to determine a cause for the error message. For more information on how to review the daemon log, see "Using the logs generated by the TimesTen daemon" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
		Impact: Review the daemon log for any possible impacts.
		User Action: Review the daemon log for any possible fixes.
47180	LogSpaceMon: *LogSpaceMon_status info*	**Type of Message:** Informational
		Cause: General informational message for the monitoring and management thread for the autorefresh log space.
		Impact: None.
		User Action: None.

Error number	Error or warning message	Details
47189	Cache group *cachegroup* will not be autorefresh because the cache group is marked not alive and the recovery method is manual.	**Type of Message:** Warning **Cause:** The specified cache group has been marked dead because the cache agent has been down too long. You have configured the cache group in a way that requires a full manual refresh to recover the cache group. **Impact:** The data in the autorefresh cache group is out of date. **User Action:** Perform a full manual refresh on the specified cache group. For more information on how to perform a full manual refresh of a cache group, see "Loading and refreshing a cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
47190	Autorefresh commit every n operations feature is enabled for autorefresh interval *interval_value* ms and autorefresh number *autorefresh_number*. Autorefresh will commit after every *num_operations* operations.	**Type of Message:** Informational **Cause:** The ttCacheAutorefreshXactLimit built-in is enabled with the specified settings. **Impact:** The autorefresh cycles will be performed as several small transactions instead of one large transaction. **User Action:** None. For more information on the ttCacheAutorefreshXactLimit built-in, see "ttCacheAutorefreshXactLimit" in the *Oracle TimesTen In-Memory Database Reference*.
47192	Autorefresh for interval *interval_value* ms and number *autorefresh_number* will apply changes to Timesten using a single transaction.	**Type of Message:** Informational **Cause:** The ttCacheAutorefreshXactLimit built-in is not enabled. **Impact:** The autorefresh cycles will be performed as single transactions. **User Action:** None. For more information on the ttCacheAutorefreshXactLimit built-in, see "ttCacheAutorefreshXactLimit" in the *Oracle TimesTen In-Memory Database Reference*.
47193	Could not find *static_or_dynamic* refresher with interval *interval_value* ms.	**Type of Message:** Error **Cause:** An internal structure that contains the autorefresh information for the specified interval was not found. **Impact:** The operation failed. **User Action:** If you receive this error message while using the ttCacheAutorefIntervalStatsGet built-in, retry the operation. If you receive this error message for any other reason, the autorefresh operation will be attempted later.

Error number	Error or warning message	Details
47194	Incremental autorefresh encountered an error for table: *owner.table*. soLog(*start_of_log*), eoLog(*end_of_log*).	**Type of Message:** Error **Cause:** The incremental autorefresh operation encountered an error for the specified table. A detailed error message follows this message. **Impact:** The incremental autorefresh operation cannot be performed and will be attempted again later. Review the error message for any additional impacts. **User Action:** Review the error message for possible fixes.
47195	Incremental autorefresh ended for table: *owner.table*. soLog(*start_of_log*), eoLog(*end_of_log*).	**Type of Message:** Informational **Cause:** The incremental autorefresh operation for the specified table completed. **Impact:** None. **User Action:** None.
47196	Load table started for table: *table_name*	**Type of Message:** Informational **Cause:** The specified table is starting to load. **Impact:** None. **User Action:** None.
47197	Load table encountered an error for table: *table_name*	**Type of Message:** Error **Cause:** The load table operation encountered an error for the specified table. A detailed error message follows this message. **Impact:** The load table operation cannot be performed. Review the error message for any additional impacts. **User Action:** Review the error message for possible fixes.
47198	Load table ended for table: *table_name*	**Type of Message:** Informational **Cause:** The specified table finished loading. **Impact:** None. **User Action:** None.
47199	Subtree load started for root table: *owner.table*	**Type of Message:** Informational **Cause:** The subtree of the specified root table is starting to load. **Impact:** None. **User Action:** None.
47200	Subtree load encountered an error for root table: *owner.table*	**Type of Message:** Error **Cause:** The subtree load operation encountered an error for the root table. A detailed error message follows this message. **Impact:** The subtree load operation cannot be performed and will be attempted again later. Review the error message for any additional impacts. **User Action:** Review the error message for possible fixes.

Error number	Error or warning message	Details
47201	Subtree load ended for root table: *owner.table_name*	**Type of Message:** Informational **Cause:** The subtree of the specified root table finished loading. **Impact:** None. **User Action:** None.
47202	Root load started for root table: *table_name*	**Type of Message:** Informational **Cause:** The specified root table is starting to load. **Impact:** None. **User Action:** None.
47203	Root load encountered an error for root table: *table_name*	**Type of Message:** Error **Cause:** The load table operation encountered an error for the specified root table. A detailed error message follows this message. **Impact:** The load table operation cannot be performed and will be attempted again later. Review the error message for any additional impacts. **User Action:** Review the error message for possible fixes.
47204	Root load ended for root table: *table_name*	**Type of Message:** Informational **Cause:** The specified root table finished loading. **Impact:** None. **User Action:** None.
47205	Prepared oracle stmt: *oracle_stmt*	**Type of Message:** Informational **Cause:** The specified Oracle database statement has been prepared. **Impact:** None. **User Action:** None.
47206	Log Table Marker marked *marked_rows* rows of log table TT_*version_object-ID_L* with logseq *start_logseq* through *end_logseq*	**Type of Message:** Informational **Cause:** The log table marker marked the specified amount of rows within the specified range from the specified log table. **Impact:** None. **User Action:** None.
47207	Log Table Marker marked *marked_rows* rows of log table TT_*version_object-ID_L*	**Type of Message:** Informational **Cause:** The log table marker marked the specified amount of rows from the specified log table. **Impact:** None. **User Action:** None.

Error number	Error or warning message	Details
47210	AR STATS: *autorefresh_stats*	**Type of Message:** Informational
		Cause: This is a diagnostic message that shows the autorefresh statistics.
		Impact: None.
		User Action: None.
47211	TAF callback re-establishing session settings.	**Type of Message:** Informational
		Cause: This is a progress message indicating that Transparent Application Failover (TAF) is executing during a Real Application Clusters (Oracle RAC) failover.
		Impact: TAF callback is reestablishing session settings.
		User Action: None.
47212	TAF callback re-establishing nls settings.	**Type of Message:** Informational
		Cause: This is a progress message indicating that Transparent Application Failover (TAF) is executing during a Real Application Clusters (Oracle RAC) failover.
		Impact: TAF callback is reestablishing NLS settings.
		User Action: None.
47213	Marked cache group with id=*cache_group_id* (ts=*timestamp*) for delete	**Type of Message:** Informational
		Cause: The cache agent marked the specified cache group to be removed from the internal structure of the refresher.
		Impact: The cache agent will not consider the specified cache group in subsequent autorefresh operations.
		User Action: None.
47214	Dropped Oracle database objects	**Type of Message:** Informational
		Cause: The cache agent is dropping the cache group Oracle database metadata objects that are no longer needed.
		Impact: The cache group metadata objects are no longer available on the Oracle database.
		User Action: None.
47215	Removed cache group: id=*cache_group_id*, name=*cache_group_name*, mode=*autorefresh_mode*, state=*autorefresh_state*, ts=*timestamp*, interval=*interval* from list	**Type of Message:** Informational
		Cause: The cache agent is deleting the specified cache group from the internal structure of the refresher.
		Impact: The refresher thread for the specified interval will no longer manage the specified cache group.
		User Action: None.

Error number	Error or warning message	Details
47216	Added cache group: id=*cache_group_id*, name=*cache_group_name*, mode=*autorefresh_mode*, state=*autorefresh_state*, ts=*timestamp*, interval=*interval* to list	**Type of Message:** Informational **Cause:** The cache agent is adding the specified cache group to the internal structure of the refresher. **Impact:** The refresher thread for the specified interval will start managing the specified cache group. **User Action:** None.
48001	Could not obtain host list from Oracle Clusterware found in *CRS_HOME*	**Type of Message:** Error **Cause:** The `ttCWAdmin` utility cannot retrieve the list of hosts used for the Oracle Clusterware cluster. **Impact:** The `ttCWAdmin` utility failed. **User Action:** Run the `ttmodinstall -crs` utility option to verify and change any values used to manage TimesTen hosts within an Oracle Clusterware cluster. For more information on using `ttmodinstall -crs`, see "Install TimesTen on each host" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48002	CRS home was not found in the ttcrsagent.options file.	**Type of Message:** Error **Cause:** The Oracle Clusterware location is not specified in the `ttcrsagent.options` file. **Impact:** The `ttCWAdmin` utility failed. **User Action:** Run the `ttmodinstall -crs` utility option and verify that all the values are correct. For more information on using `ttmodinstall -crs`, see "Install TimesTen on each host" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48003	Failed to load Oracle Clusterware API library.	**Type of Message:** Error **Cause:** A TimesTen Clusterware utility was unable to load the Clusterware API library from Oracle Clusterware. **Impact:** The TimesTen Clusterware utility failed. **User Action:** An operating system error may precede this message and may be found in the `ttcwerrors.log` file. Diagnose and troubleshoot the operating system error. Run the `ttmodinstall -crs` utility option and verify that all the values are correct. Also, ensure that the API libraries are located in the *CRS_HOME*/lib, directory. For more information on the `ttcwerrors.log` file, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*. For more information on using `ttmodinstall -crs`, see "Install TimesTen on each host" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
48004	`Clusterware_function failed with status = CRS_error_number`	**Type of Message:** Error **Cause:** A call to an Oracle Clusterware API failed. **Impact:** TimesTen cannot perform the operation. **User Action:** Review the specified error message for possible fixes.
48005	`One or more clusters are active on the host host_name`	**Type of Message:** Error **Cause:** You attempted to shut down one or more cluster agents that are currently active on the specified host. **Impact:** TimesTen cannot run the `ttCWAdmin -shutdown` utility command **User Action:** Perform the following steps: - Identify the active cluster agents by executing the `ttCWAdmin -status` command. - Drop the existing cluster agents by executing the `ttCWAdmin -drop` command. For more information about the `ttCWAdmin` utility, see "ttCWAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
48006	`The cluster configuration file attribute attribute_name for DSN dsn_name in the cluster configuration file file_name does not have an assigned value.`	**Type of Message:** Error **Cause:** You did not assign a value to the specified cluster configuration file attribute in the `cluster.ora.ini` file. **Impact:** TimesTen cannot run the `ttCWAdmin -create` utility command **User Action:** Assign a value to the specified cluster configuration file attribute. Then, retry the operation. For more information, see "The cluster.oracle.ini.file" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48007	`Virtual IP resources do not exist in the cluster for DSN dsn_name.`	**Type of Message:** Error **Cause:** The TimesTen virtual IP resources do not exist in the Oracle Clusterware for the specified DSN. **Impact:** TimesTen cannot run the `ttCWAdmin -create` utility command. **User Action:** Use the `ttCWAdmin -createVIPS` utility command to create the TimesTen virtual IP resources. For more information about the `ttCWAdmin` utility, see "ttCWAdmin" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
48008	A cluster for the DSN `dsn_name` has already been registered.	**Type of Message:** Error **Cause:** You attempted to create a cluster that already exists for the specified DSN. **Impact:** TimesTen cannot run the `ttCWAdmin` utility command. **User Action:** If you want to create a new cluster with the specified name, perform the following steps: - Drop the existing cluster using the `ttCWAdmin -drop` utility command. - Then, create the new cluster using the `ttCWAdmin -create` utility command. For more information about the `ttCWAdmin` utility, see "ttCWAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
48009	Private hostname not found for the host `host_name`.	**Type of Message:** Error **Cause:** The private hostname for the indicated host name was not returned by Oracle Clusterware. **Impact:** Oracle Clusterware cannot start. **User Action:** Verify the cluster configuration by calling `crsctl check cluster`. If the host is not listed, follow the procedure in the Oracle Clusterware documentation. If the host is listed, contact TimesTen Customer Support.
48010	Connection to TimesTen Cluster agent on host `host_name` failed.	**Type of Message:** Error **Cause:** The TCP connection to the TimesTen Cluster agent failed on the specified host. **Impact:** Oracle Clusterware cannot start. If Oracle Clusterware is already running, the Oracle Clusterware services will failover to another host. **User Action:** Check the `ttcwerrors.log` file on the indicated host for any errors occurring before this error. Diagnose and troubleshoot the errors. If no network error is detected, contact TimesTen Customer Support. For more information on the `ttcwerrors.log` file, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
48011	Could not successfully send cluster configuration model for DSN *dsn_name* to TimesTen Cluster agent on host *host_name*	**Type of Message:** Error **Cause:** This error may occur as the result of an incorrect input to a ttCWAdmin utility command, an incorrect value in the TimesTen cluster configuration file, or due to network errors. **Impact:** The cluster may not be fully started, or may exclude the specified host, or both. **User Action:** - Ensure that your input to the ttCWAdmin utility command is correct. For more information, see "ttCWAdmin" in the *Oracle TimesTen In-Memory Database Reference*. - Check the TimesTen cluster configuration file for any errors. For more information, see "TimesTen Configuration Attributes for Oracle Clusterware" in the *Oracle TimesTen In-Memory Database Replication Guide*. - Check the ttcwerrors.log file on the indicated host for errors that occurred before this error. Diagnose and troubleshoot the errors. If no network error is detected, contact TimesTen Customer Support. For more information on the ttcwerrors.log file, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48012	Could not successfully verify user ID and password(s) for DSN *dsn_name* on host *host*.	**Type of Message:** Error **Cause:** You specified an invalid user ID or password for the TimesTen database. **Impact:** TimesTen cannot run the ttCWAdmin -create utility command. **User Action:** Ensure that the specified database exists. Also, ensure that you specify a correct user ID and password for the TimesTen database. If TimesTen Cache is enabled, verify the Oracle database password. For more information, see "UID and PWD" in the *Oracle TimesTen In-Memory Database Reference*.
48013	Failed to create active standby pair replication scheme for DSN *dsn_name* on host *host_name*	**Type of Message:** Error **Cause:** The active standby pair cannot be created. **Impact:** Oracle Clusterware cannot start. **User Action:** Check for errors in the ttcwerrors.log and the ttmesg.log files. Diagnose and fix the errors. Then run the ttCWAdmin utility command that failed. If the same replication scheme can be created manually without using the ttCWAdmin utility, contact TimesTen Customer Support. For more information on the message log files, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*.

Error number	Error or warning message	Details
48014	Failed to register the cluster for DSN *dsn_name* with Oracle Clusterware.	**Type of Message:** Error **Cause:** TimesTen cannot register the cluster for the specified DSN. **Impact:** TimesTen cannot run the `ttCWAdmin -create` utility command. **User Action:** Review the `ttcwerrors.log` and `ttcwmsg.log` error message log files for possible fixes. For more information on the message log files, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48015	Failed to register resource *resource_name* with Oracle Clusterware.	Check the `ttcwmesg.log` and `ttcwerrors.log` files for errors that occurred before this error. Verify that Oracle Clusterware is running by running the command `crsctl check crs`. Verify that attribute values specified in the TimesTen cluster configuration file are correct.
48016	TimesTen Cluster agent received NULL Oracle password for DSN *dsn_name*.	**Type of Message:** Error **Cause:** You did not specify an Oracle database password when creating a cluster. **Impact:** TimesTen cannot run the `ttCWAdmin -create` utility command. **User Action:** Retry using the `ttCWAdmin -create` utility command and specify a valid Oracle database password. Then, retry the operation. For more information on the `ttCWAdmin` utility, see "ttCWAdmin" in the *Oracle TimesTen In-Memory Database Reference*.
48017	No -tns_admin option specified in the ttendaemon.options file.	**Type of Message:** Error **Cause:** The `ttendaemon.options` file does not contain a valid `tns_admin` daemon option. **Impact:** TimesTen cannot run the `ttCWAdmin -create` utility command to configure a cluster. **User Action:** Use the `ttmodinstall -tns_admin` utility option to specify a valid `tns_admin` path. For more information on the `ttmodinstall` utility, see "ttmodinstall" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
48018	Failed to register direct-linked application resources for DSN *dsn_name* with Oracle Clusterware.	**Type of Message:** Error
		Cause: The `ttCWAdmin -create` utility command cannot register direct-linked applications to be managed by the Oracle Clusterware.
		Impact: The `ttCWAdmin -create` utility command cannot register applications to be managed by the Oracle Clusterware.
		User Action: Verify that the application attributes are correct in the `cluster.oracle.ini` file for the specified DSN. Also, ensure that the application script is located in the script install directory of every host. Review the `ttcwerrors.log` and `ttcwmsg.log` error message log files for possible fixes.
		For more information about the `cluster.oracle.ini` file, see "The cluster.oracle.ini file" in the *Oracle TimesTen In-Memory Database Replication Guide*. For more information on the message log files, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48019	Failed to restore DSN *dsn_name* on the localhost.	**Type of Message:** Error
		Cause: You attempted to restore the specified DSN.
		Impact: TimesTen cannot execute the `ttCWAdmin -restore` utility command.
		User Action: Review the `ttcwerrors.log` and `ttcwmsg.log` error message log files for possible fixes. For more information on the message log files, see "Message log files" in the *Oracle TimesTen In-Memory Database Replication Guide*.
48020	TimesTen cluster containing DSN *dsn_name* not found.	There is no registered cluster containing the specified DSN.
		If the cluster was created previously, creation may have failed. Drop the existing cluster by calling:
		`ttCWAdmin -drop -dsn dsn_name`
		Create a new closer by calling:
		`ttCWAdmin - create -dsn dsn_name`
48021	Resource *resource_name* not registered.	The specified resource is not registered with Oracle Clusterware.
		If the cluster was created previously, creation may have failed. Drop the existing cluster by calling:
		`ttCWAdmin -drop -dsn dsn_name`
		Create a new cluster by calling:
		`ttCWAdmin - create -dsn dsn_name`

Error number	Error or warning message	Details
48022	TimesTen cluster containing DSN *dsn_name* is not completely registered.	Check for resources that are not registered with Oracle Clusterware by reviewing error messages that appear in the `ttcwerrors.log` file before this error.
		Drop the existing cluster by calling:
		`ttCWAdmin -drop -dsn dsn_name`
		Create a new cluster by calling:
		`ttCWAdmin - create -dsn dsn_name`
48023	TimesTen cluster containing DSN *dsn_name* is already running.	Drop the existing cluster by calling: `ttCWAdmin -drop -dsn dsn_name`
48024	TimesTen cluster containing DSN *dsn_name* failed to start.	Check the `ttcwmesg.log` and `ttcwerrors.log` files in the daemon home directory for errors that occurred before this error.
		Also, check the `crsd.log` file in the `CRS_HOME/log/`*hostname*`/crsd` directory for errors that occurred before this error.
48025	The resource *resource_name* is still online.	Stop the cluster containing the specified resource by calling:
		`ttCWAdmin -stop -dsn dsn_name`
48026	The cluster containing DSN *dsn_name* failed to stop.	**Type of Message:** Error
		Cause: The cluster that contains the specified DSN cannot stop.
		Impact: The state of the cluster is unknown, it may or may not be running.
		User Action: Contact TimesTen Customer Support.
48027	The cluster for DSN *dsn_name* partly offline.	Some resources of the specified cluster are offline.
		You may be able to restart the offline resources by calling:
		`ttCWAdmin -start -dsn dsn_name`
48028	Could not deregister the TimesTen cluster for containing DSN *dsn_name*.	The replication scheme does not exist in the specified cluster databases. Stop the cluster by calling:
		`ttCWAdmin -stop -dsn `*dsn_name*
		Then drop the cluster by calling:
		`ttCWAdmin -drop -dsn `*dsn_name*
48029	Failed to drop active standby pair replication scheme for DSN *dsn_name* on host *host_name*.	The replication scheme does not exist in the specified database on the specified host.
48030	TimesTen Cluster agent could not find application script file with name *script_name* for the TimesTen cluster containing DSN *dsn_name*.	Verify that the application script exists in the script installation directory on all hosts of the cluster.

Error number	Error or warning message	Details
48031	Failed to create action script for Oracle Clusterware resource *resource_name* of the TimnesTen clsuter containing the DSN *dsn_name*.	Verify that the permissions are correct and there is enough and available space in the script installation directory.
48032	Failed to delete action script for Clusterware resource *resource_name* of the TimesTen cluster containing the DSN *dsn_name*.	Verify that the permissions in the script installation directory are correct.
48033	Syntax error exists in line "*line_text*" in cluster configuration file *file_name* for DSN *dsn_name*.	See the description of the attribute in the "TimesTen Configuration Attributes for Oracle Clusterware" in the *Oracle TimesTen In-Memory Database Replication Guide* for the correct configuration file syntax.
48034	An unkown attribute *attribute_name* mentioned in the cluster configuration file *file_name* for DSN *dsn_name*.	See the description of the attribute in the "TimesTen Configuration Attributes for Oracle Clusterware" in the *Oracle TimesTen In-Memory Database Replication Guide* for the correct configuration file syntax.
48035	Conflicting attribute *attribute_name* in the cluster configuration file *file_name* for the DSN *dsn_name*.	Multiple entries found for the specified attribute in the cluster configuration file. Remove the conflicting attribute(s) and retry the operation.
48036	Illegal value *value* for attribute *attribute_name* in the cluster configuration file *file_name* for the DSN *dsn_name*.	See the description of the attribute in the "TimesTen Configuration Attributes for Oracle Clusterware" in the *Oracle TimesTen In-Memory Database Replication Guide* for the correct configuration file syntax.
48037	Number of subscribers for the TimesTen cluster containing DSN *dsn_name* exceeded the maximum.	See "System Limits" in the *Oracle TimesTen In-Memory Database Reference* for the maximum number of subscribers in an active standby pair.
48038	Application type of Subscriber specified for application *application_name*, but no subscribers are configured for the TimesTen cluster containing the DSN *dsn_name*.	An application type of Subscriber may only be configured if the TimesTen cluster contains subscriber databases.
48039	Invalid subscriber index specified for application *application_name* in the TimesTen cluster containing the DSN *dsn_name*.	The specified subscriber index may not be 0 or less, or greater than the number of subscriber databases.
48040	Orphaned or conflicting application attribute *attribute_name* specified in the cluster configuration file *file_name* for DSN *dsn_name*.	Verify that the TimesTen cluster configuration file for specified DSN does not contain duplicate application attributes and that the first application attribute for each application is `AppName`.

Error number	Error or warning message	Details
48041	Connection to Oracle with OracleNetServiceName *name* failed.	In the sys.odbc.ini entry for the DSN, verify the value for OracleNetServiceName attribute. Also verify that the -tns_admin option is specified correctly in the ttendaemon.options file.
		Finally, check that the Oracle database is still live.
48042	Failed to determine installation information.	Internal error. Contact TimesTen Customer Support.
48043	The send string *string* is too long.	The length of an attribute value or a replication scheme is limited to 409600.
		Verify the length of the attribute values in the cluster configuration file, and the replication scheme if it is specified using the RepDDL attribute.
48044	Wrong ACK *ack_string* received.	Internal error. Contact TimesTen Customer Support.
48045	No DSN specified in ttCWAdmin command *command_line*.	Most ttCWAdmin utility commands require that you specify the DSN. Retry the command with the option -dsn *dsn_name*.
48046	Could not connect to remote store *store*_name on host *host_name*	The host is down, or the TimesTen main daemon or replication agent are down on the specified host, or the database on the specified host is not an active or standby master.
48047	Replication checksum *checksum_value* of the local store dsn *dsn_name* does not match the original checksum *checksum_value* of the replication scheme.	This is a transient error. The local database is automatically duplicated from the remote database in the event of a checksum mismatch.
48048	Another resources is already running the action program *binary_executable_name* for the DSN *dsn_name*.	Transient error. A new source is starting, but the specified local database is managed by an existing Oracle Clusterware resource. The cluster automatically relocates the new resource to a different host.
48049	Failed to *start/stop* the replication agent for the DSN *dsn_name*.	Transient error. The cluster automatically corrects the problem.
48050	Failed to *start/stop* the cache agent for the DSN *dsn_name*.	This may occur if no cache groups are defined in the DSN, but the CacheConnect attribute is specified with a value of "Y" in the TimesTen cluster configuration file.
48051	TimesTen cluster action program *binary_executable_name* timed out for the DSN *dsn_name*.	The cluster action program was unable to start the database with a replication state of either active or standby, or was unable to create a subscriber. This may happen if there is a network error in the cluster, or the original active database is destroyed.

Error number	Error or warning message	Details
48052	Failed to determine the master host containing the DSN *dsn_name*.	**Type of Message:** Error **Cause:** The master host containing the specified DSN could not be determined. **Impact:** The cluster cannot start. **User Action:** Ensure that your TimesTen configuration attributes for Oracle Clusterware are correct. The local host should be one of the master hosts or contain one of the master VIP addresses in an active standby pair scheme. For more information see, "TimesTen Configuration Attributes for Oracle Clusterware" in the *Oracle TimesTen In-Memory Database Replication Guide*. If you are unable to troubleshoot the error or still receive this error, contact TimesTen Customer Support.
48053	Could not find remote active data store for the DSN *dsn_name*.	The cluster action program was unable to contact the remote active database. This may be a transient network problem.
48054	TimesTen cluster program could not destroy the data store with the DSN *dsn_name*.	Internal error. Contact TimesTen Customer Support.
48055	Could not find standby host in the replication scheme for the DSN *dsn_name*.	A query to the replication system table TTREP.TTSTORES has failed. Check for SQL errors in the ttmesg.log file.
48056	Could not find data store backup directory for the DSN *dsn_name*.	Verify that the backup directory is accessible from all hosts in the TimesTen cluster.
48057	Another TimesTen Cluster agent is running.	Stop the TimesTen Cluster agent manually by calling ttCWAdmin -shutdown.
48058	TimesTen Cluster agent received an unkown command: *command_string*.	Internal error. Contact TimesTen Customer Support.
48059	TimesTen Cluster agent did not successfully receive all parameters of the cluster.	The ttCWAdmin utility command closed the connection to the TimesTen Cluster agent due to previous errors or due to a TCP timeout. The TCP timeout for communication between ttCWAdmin and the TimesTen Cluster agent is 30 seconds. Retry the operation if no previous errors or a timeout are mentioned in the ttcwerrors.log file.
48060	TimesTen Cluster agent could not successfully verify Oracle password for the OracleNetServiceName = *oracle_net_service_name*.	Verify that the Oracle database password is correct.
48061	TimesTen Cluster agent received NULL user ID for the DSN *dsn_name*.	Internal error. Contact TimesTen Customer Support.

Error number	Error or warning message	Details
48062	`TimesTen Cluster agent received NULL password for the DSN dsn_name.`	Internal error. Contact TimesTen Customer Support.
48063	`TimesTen Cluster agent could not create files on socket_file_directory.`	On Linux and UNIX systems, all cluster processes of a particular TimesTen instance have their socket files in the temporary directory `crsTT_instance admin_instance name`. Oracle Clusterware executes action programs that communicate with the TimesTen cluster processes through these file sockets.
		Ensure that the TimesTen instance administrator and the Clusterware administrator users have read, write and execute permissions on the temp (`/tmp`) directory.
		In the `ttcwerrors.log` file, check if any OS errors occurred before this error.
48064	`Failed to determine the status of the TimesTen main daemon with the daemon home directory daemon_home_directory and daemon port number port_number.`	The daemon is not running, or it is running in a different home directory and with a different port number.
		Verify that the daemon is running in the appropriate location.
		If the daemon is running, contact TimesTen Customer Support with the detailed output from `ttversion -m` on the terminal where the daemon was started.
48065	`Failed to obtain replication route from TTCW: error_string.`	**Type of Message:** Error
		Cause: The replication route from TimesTen Clusterware cannot be obtained.
		Impact: The attempted operation or TimesTen Clusterware ran into an irrecoverable error.
		User Action: If you get this error when Oracle Clusterware is managing replication, contact TimesTen Customer Support. If Oracle Clusterware is not managing replication, you can ignore this error.
48066	`The master/subscriber host name host_name is invalid.`	Verify that the host name is correct and the host exists in the network domain name system.
48067	`Failed to read the cluster configuration file file_name`	Check for OS errors preceding this error in the `ttcwerrors.log` file.
48068	`Failed to obtain an IP address for the host host_name`	Verify that the host name is correct and the host exists in the network domain name system.
48069	`Process_name failed to connect to the DSN dsn_name due to the error ODBC_native_error_number`	Check for specific connection errors in the `ttmesg.log` file.

Error number	Error or warning message	Details
48070	Virtual IP addresses for the DSN *dsn_name* were not found in the cluster configuration file *file_name*.	A cluster configuration that uses virtual IP addresses must contain the attribute `MasterVIP`, specifying the virtual IPs to be used for master databases. If the configuration includes subscribers, it must also include the attribute `SubscriberVIP`.
48071	The resource *resource_name* is offline.	An Oracle Clusterware resource is offline. If the TimesTen Cluster agent is offline, bring it up by calling: `ttCWAdmin -init` If the TimesTen Cluster agent is online, call: `ttCWAdmin -start -dsn` *dsn_name* to start all other resources.
48072	Incorrect response received from TimesTen Cluster agent for the DSN *dsn_name*.	Verify that the TimesTen Cluster agent is running and is listening to an available TCP port.
48073	The line *line* in the cluster configuration file is too long. It must be less than *posix_LINE_MAX_value*.	If a configuration line is too long, it may be split into multiple lines. Each line may be ended with a "\" character to indicate that it should be concatenated with the following line. The final concatenated string may be no longer than 2 * *posix_LINE_MAX_value*.
48074	The concatenated line '*line*' in the cluster configuration file is too long. It must be less than two times *max_value*.	An attribute value is too long and must be shortened.
48075	The TimesTen cluster configuration for the DSN *dsn_name* was not found in the cluster configuration file *file_name*.	Verify that the configuration is specified correctly for the specified DSN in the cluster configuration file.
48076	Less than two host names specified for MasterHosts for the DSN *dsn_name* in the cluster configuration file *file_name*.	At least two host names must be specified for `MasterHosts`.
48077	Invalid AppType specified for the application *application_name*	The `AppType` attribute for an application cannot be specified as Active or Standby when the `ClusterType` is Subscriber.
48078	Attribute *attribute_name* missing for the DSN *dsn_name* in the cluster configruation file *file_name*.	A required virtual IP attribute is missing from the cluster configuration file.
48079	No value specified for SubscriberHosts for the DSN *dsn_name* in the cluster configuration file *file_name*.	If the `ClusterType` of the cluster configuration is Subscriber, at least one host name must be specified for SubscriberHosts.

Error number	Error or warning message	Details
48080	Less than two Virtual IP addresses specified for the attribute MasterVIP for the DSN *dsn_name* in the cluster configuration file *file_name*.	If the ClusterType of the cluster configuration is Active and VIPInterface and VIPNetMask are specified, you must specify at least two virtual IP addresses for the attribute MasterVIP.
48081	No value specified for SubscriberVIP for the DSN *dsn_name* in the cluster configuration file *file_name*.	If subscribers exist in the cluster configuration and VIPInterface and VIPNetMask are also specified, you must specify at least one virtual IP address for the attribute SubscriberVIP.
48082	Backups illegally specified for the DSN *dsn_name* in the cluster configuration file *file_name*.	Backups may only be specified for a DSN when the ClusterType is Active.
48083	A required attribute *attribute_name* missing for the application *application_name* for the DSN *dsn_name* in the cluster configuration file *file_name*.	See the description of the attribute in the "TimesTen Configuration Attributes for Oracle Clusterware" in the *Oracle TimesTen In-Memory Database Replication Guide* for the correct configuration file syntax.
48084	The TimesTen cluster monitor process *process_name* failed.	The specified process has failed. Check the preceding errors in the ttcwerrors.log file for details.
48085	Failed to create directory *directory_name* for socket files.	A directory must be created for socket files in /tmp on UNIX and C:\Temp on Windows. Check for preceding OS errors in the ttcwerrors.log file.
48086	Failed to obtain port number for the TimesTen Cluster agent.	Internal error. Contact TimesTen Customer Support.
48087	Failed to obtain process ID file *file_name* for reading.	Every cluster monitor process creates a file in the TimesTen info directory that contains its process ID. If this file is missing, the corresponding cluster monitor process is probably not running. If you continuously get this error, contact TimesTen Customer Support.
48088	Failed to delete directory socket file directory *directory_name*.	Check OS errors preceding this error in the ttcwerrors.log file.
48089	TimesTen Cluster agent could not succesfully receive all application information for the DSN *dsn_name*.	Check for TCP communication errors or OS errors preceding this error in the ttcwerrors.log file.

Error number	Error or warning message	Details
48090	TimesTen Cluster agent could not successfully receive *attribute_name* for the cluster containing the DSN *dsn_name*.	**Type of Message:** Error **Cause:** The TimesTen Cluster agent could not receive the specified information when exchanging information with another node in the cluster. **Impact:** Oracle Clusterware may fail. **User Action:** Check for TCP communication errors or operating system errors preceding this error in the `ttcwerrors.log` file. Diagnose and fix the errors. Then run the `ttCWAdmin` utility command that failed.
48091	TimesTen Cluster agent could not determine OracleNetServiceName from the DSN *dsn_name*.	Verify that `OracleNetServiceName` is specified in the DSN configuration in the `ODBCINI` file.
48092	TimesTen Cluster agent could not successfully send *attribute_verification_code* for the clsuter containing the DSN *dsn_name*.	Check for TCP communication errors or OS errors preceding this error in the `ttcwerrors.log` file.
48093	TimesTen Cluster agent could not alter autorefresh state to PAUSED for the cache group *owner*.*cache_group_name* on the DSN *dsn_name*.	Internal error. Contact TimesTen Customer Support.
48094	The cluster monitor process *process_name* for the DSN *dsn_name* failed to obtain connection string.	**Type of Message:** Error **Cause:** The indicated cluster monitor process could not obtain a connection string. A common cause for this is that the database does not exist. **Impact:** The cluster cannot run. **User Action:** Ensure that the database exists. For more information on installing a TimesTen database, see *Oracle TimesTen In-Memory Database Installation Guide*. If you get this error when the database already exists, contact TimesTen Customer Support.
48095	The cluster monitor process *process_name* detected an invalid data store for the DSN *dsn_name*.	This error may be received while a failed database is in the process of recovery.
48096	The DSN *dsn_name* on Remote master host *host_name* is unavailable.	A cluster monitor process failed to get a response from the remote replication agent.
48097	Data store *dsn_name* has changed its role to *ACTIVE/STANDBY/IDLE*	The specified database changed roles without the intervention of a cluster monitor process.
48098	Cluster backup failed for the data store *dsn_name* on host *host_name*.	Check preceding errors in the `ttcwerrors.log` file.

Error number	Error or warning message	Details
48099	TimesTen daemon is not running on port *port_number*.	The TimesTen main daemon may have failed. Check for errors in the `ttmesg.log` file.
48100	TimesTen daemon port *port_number* in use by TimesTen daemon for other unknown instance with process ID *process_id_number*.	The configured TimesTen daemon port is not available to the current instance.
48101	TimesTen daemon port *port_number* is in use by an unknown process.	The TimesTen daemon port is not available to the instance.
48102	The host name *host_name* in the TTREP.TTSTORES table of data store *dsn_name* does not match the assigned host name *host_name*.	The host name found in the `TTREP.TTSTORES` system table of the database does not match the host name assigned to the cluster program monitoring it. If the database is a standby master or a subscriber, it is being replaced with a duplicate from the active master. If the database is an active master, it is being recovered from a backup if backups are enabled, otherwise it failed.
48103	The local CTN (*timestamp*, *sequence_number*) on the data store *dsn_name* is larger than that of the data store on the remote host *host_name* (*timestamp*, *sequence_number*).	Trapped transactions exist on a failed active master database (the transactions were not replicated to the standby master before the database failed). The database is being duplicated to create standby master database that also contains all transactions.
48104	And internal error has occurred for the TimesTen cluster containing the DSN *dsn_name*. *Error_details*.	Check for preceding errors in the `ttcwerrors.log` file.
48105	The data store space usage has exceeded PermSize on DSN *dsn_name*.	The database has run out of space and is considered failed.
48106	The data store *dsn_name* on remote host *host_name* has declared the local store as FAILED.	If communication is interrupted between the replication agents long enough to meet the configured `FAILTHRESHOLD` value for the local database, it is automatically recovered by the cluster monitor program.
48107	The replication agent for data store *dsn_name* is not running.	The replication agent for the specified database is not running. Oracle Clusterware is restarting it.
48108	The cache agent for data store *dsn_name* is not running.	The cache agent for the specified database is not running. The Oracle Clusterware is restarting it.
48109	The remote VIP *host_name/ip_address* for the data store *dsn_name* is running on the local host.	This may happen if two master VIP addresses start running on the same physical host, such as when only one master host is available. hen an additional host becomes available.
48110	The remote data store *dsn_name* on host *host_name* is not in the ACTIVE state.	The remote master database is not in the `ACTIVE` replication state.

Error number	Error or warning message	Details
48111	The local data store *dsn_name* is not in the ACTIVE or STANDBY state.	**Type of Message:** Error **Cause:** The local master database is not in the ACTIVE or STANDBY replication state. The local master database is expected to be in the ACTIVE or STANDBY replication state during an intermittent transitional situation for the database, especially during a roll out or when a role change occurs. **Impact:** None. **User Action:** Rerun the operation that caused the error. If you still receive this error, contact TimesTen Customer Support.
48112	The last heartbeat from the remote application agent for data store *dsn_name* was more than 60 seconds ago.	A heartbeat was not received from the remote replication agent. Verify the network connection between the remote and local hosts.
48113	Cache grid configuration error for dsn *dsn_name*.*error*	This error may appear when running the ttCWAdmin -create utility. The cache grid configuration in the cluster configuration file is incorrect or incomplete for the cluster configuration of a particular DSN. The first string provides the DSN. The second string provides the error detail.
48114	Failed to *string* cache grid *string* for the DSN *string*.	This message appears when a cluster monitor process fails to attach or detach the cache grid agent in a cluster of a particular DSN.
48115	Not allowed since this store (*datastore* on *hostname*) is managed by Clusterware	A particular operation is disallowed since the database on a host is managed by Clusterware. The list of forbidden SQL operations include: ■ Starting or stopping replication agents. ■ Starting or stopping cache agents. ■ Altering or dropping an active standby pair.
48116	Unsupported Clusterware version *version_num*.	The Clusterware version for this user does not work with TimesTen.
48117	Unable to obtain Clusterware version.	Contact TimesTen Customer Support.

Error number	Error or warning message	Details
48118	The local CTN (*timestamp*, *sequencenumber*) on the data store *dsn_name* is smaller than that of the data store on remote host *hostname* (*timestamp*, *sequencenumber*) with virtual IP configured.	While a cluster monitor is bringing up a standby or a read-only subscriber database, and the database is already present locally, the replication CTN of the local database is checked with that of the remote master database. If the CTN of the local database is smaller than that of the remote master database, the local database may have missed transactions that the remote master database had sent. In that case, the local database is destroyed and duplicated from the remote master. This can occur with virtual IP configuration since a standby or a read-only subscriber database can be relocated from one physical host to another.
48119	Database *dsn_name* not attached to Grid.	The database is not attached to the Grid. This message can occur at run-time if the database is invalidated, or if Grid communication fails. The process `ttCRSmaster` reports this message. There is no user action needed. The process `ttCRSmaster` will automatically attempt to attach to the Grid.
49001	Table *table_name* has no primary key	**Type of Message:** Informational **Cause:** The table referenced by the application workload is defined without a primary key. **Impact:** A table without a primary key cannot be cached using the TimesTen Cache. **User Action:** Add a primary key to the table definition in the TimesTen Cache Advisor database repository. Then run the `ttCacheAdvisor` utility. For more information on the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
49003	This FK column or the corresponding parent column *column_name* is not used by all SQL statements using the child table	**Type of Message:** Informational
		Cause: A foreign key column or the corresponding parent column *column_name* is not referenced by at least one SQL statement that references the child table containing the foreign key definition.
		Impact: If a SQL statement references a child table without using a join to the parent table using the foreign key, TimesTen only caches part of the child table. The table with the foreign key must be placed into its own cache group. Failing to do so, may result in different results when executing the same query on the Oracle database and TimesTen. For more information about multiple table cache groups, see "Multiple-table cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*.
		User Action: Modify the SQL statement to include a join condition between the parent and child tables using the join key. Then run the ttCacheAdvisor utility to capture a new workload. If the table with the foreign key is placed in a writethrough cache group in the TimesTen Cache, examine your application for potential problems due to the omission of the foreign key definition.
		For more information about multiple table cache groups, see "Multiple-table cache group" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
49005	This FK completes a cycle in the FK graph within the recommended cache group	**Type of Message:** Informational **Cause:** This foreign key completes a cycle in the foreign key graph. Multiple foreign key definitions can form a cycle in the foreign key graph when the defined join keys indicate there is more than one way to join the tables. **Impact:** The TimesTen Cache only stores the rows from the child table (the table with the foreign key) that join to the parent table using the foreign key. Since each foreign key represents a potentially different subset of child rows, it is not possible to define multiple foreign keys in the TimesTen Cache that define multiple join paths. **User Action:** Eliminate the cycle in the foreign key definitions in the TimesTen Cache Advisor database repository. Then run the `ttCacheAdvisor` utility to capture a new workload. If the table with the foreign key is placed in a writethrough cache group in the TimesTen Cache, examine your application for potential problems due to the omission of the foreign key definition. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49007	This column uses a data type that is not supported by TimesTen	**Type of Message:** Informational **Cause:** The data type for the column is not supported by cache. **Impact:** The column you specified cannot be cached in the TimesTen Cache. **User Action:** Change the data type of the column in the TimesTen Cache Advisor database repository to a supported type. Also, ensure that you change the data type on your target Oracle database. Then run the `ttCacheAdvisor` utility. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*. For more information on supported data types, see "Data Types" in the *Oracle TimesTen In-Memory Database SQL Reference*.

Error number	Error or warning message	Details
49008	Insufficient cache space	**Type of Message:** Informational
		Cause: The cache size you specified with the -cacheSize option of the ttCacheAdvisor utility is too small for the indicated column.
		Impact: The SQL workload statements that reference the indicated column are executing on the Oracle database with no TimesTen Cache performance advantage.
		User Action: Run the ttCacheAdvisor utility using a larger value for the -cacheSize option.
		For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49009	ttCacheAdvisor failed to find all tables and columns after *num_attempts* attempts	**Type of Message:** Informational
		Cause: The TimesTen Cache Advisor found the indicated SQL statement to be complex.
		Impact: The TimesTen Cache Advisor recommendation does not include any columns or tables for the indicated SQL statement.
		User Action: Simplify the SQL statement. Then run the ttCacheAdvisor utility to capture a new workload.
		For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49010	Error creating table *table_name* during SQL validation: *error_condition*	**Type of Message:** Informational
		Cause: A SQL validation error occurred while creating the specified table. A detailed error message follows this message.
		Impact: The TimesTen Cache Advisor recommendation does not include any columns or tables for the indicated SQL statement.
		User Action: Address the error condition by making the appropriate changes to the table and column definitions in the TimesTen Cache Advisor database repository. Also, ensure that you address this error condition on your target Oracle database. Then run the ttCacheAdvisor utility to capture a new workload.
		For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
49012	`Error creating user user_name during SQL validation: error_condition`	**Type of Message:** Informational **Cause:** A SQL validation error occurred while creating the specified user. A detailed error message follows this message. **Impact:** The Cache Advisor recommendation does not include any columns or tables for the indicated SQL statement. **User Action:** Address the error condition by making changes in the TimesTen Cache Advisor database repository. Also, ensure that you apply these changes on your target Oracle database. Then run the `ttCacheAdvisor` utility to capture a new workload. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49013	`Column column_name not found during SQL validation: include any missing schemes with the -oraTarget -oraConn command-line option`	**Type of Message:** Informational **Cause:** The indicated SQL statement references the specified column. A definition for the specified column was not found in the TimesTen Cache Advisor database repository. **Impact:** The TimesTen Cache Advisor recommendation does not include any columns or tables for the indicated SQL statement. **User Action:** Address the missing column by making scheme changes in the TimesTen Cache Advisor repository. Also, ensure that you apply the scheme changes on your target Oracle database. Then run the `ttCacheAdvisor` utility to capture a new workload. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
49014	Table *table_name* not found during SQL validation: include any missing schemes with the -oraTarget -oraConn command-line option	**Type of Message:** Informational **Cause:** The indicated SQL statement references the specified table. A definition for the specified table was not found in the TimesTen Cache Advisor database repository. **Impact:** The TimesTen Cache Advisor recommendation does not include columns or tables for the indicated SQL statement. **User Action:** Address the missing table by making scheme changes in the TimesTen Cache Advisor repository. Also, ensure that you apply these scheme changes on your target Oracle database. Then run the ttCacheAdvisor utility to capture a new workload. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49015	Insufficient memory to allocate *number_bytes* bytes for *purpose_mem_allocation*	**Type of Message:** Error **Cause:** The TimesTen Cache Advisor does not have enough memory for the performance evaluation. **Impact:** The performance evaluation cannot be completed. The performance data used for making cache evaluations is incomplete. **User Action:** Make more memory available before running the performance evaluation. You can shut down memory consuming programs. You can also increase the amount of virtual memory. Then run the ttCacheAdvisor utility. For more information on how to increase virtual memory, see "Check available swap space (virtual memory)" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.

Error number	Error or warning message	Details
49033	Array fetch buffer allocated with *allocated_bytes* bytes is insufficient for a single row of *required_bytes* bytes for statement: *sql_statement*	**Type of Message:** Error **Cause:** The specified SQL statement requires too much memory to fetch a single row for the performance evaluation. *allocated_bytes* indicates the largest size that the TimesTen Cache Advisor can fetch. *required_bytes* indicates the size required by the indicated SQL statement. **Impact:** The indicated SQL statement cannot be performance evaluated. Cache Advisor cannot determine whether to cache tables and columns for the indicated SQL statement. **User Action:** Alter the indicated SQL statement to reduce the memory required to fetch a single row. Then run the ttCacheAdvisor utility to capture a new workload. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49034	Bind data type *bind_type* (*num_data_bind_type*) may be supported by TimesTen but is not yet supported by ttCacheAdvisor; skipping evaluation of SQL using this bind data type	**Type of Message:** Error **Cause:** The indicated SQL statement uses a bind data type that may or may not be supported by TimesTen but is not supported by the TimesTen Cache Advisor. **Impact:** The indicated SQL statement cannot be performance evaluated. The TimesTen Cache Advisor cannot determine the performance benefit for the indicated SQL statement. **User Action:** Alter the indicated SQL statement to use a bind data type that is supported by the TimesTen Cache Advisor. Then run the ttCacheAdvisor utility to capture a new workload. For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49039	Propagated from reference to view or materialized view *view_owner*.*view_name*	**Type of Message:** Informational **Cause:** The indicated SQL statement references the view or materialized view *view_owner.view_name*. Other object references and any errors from the named view or materialized view are propagated to the indicated SQL statement. **Impact:** None. **User Action:** None.

Error number	Error or warning message	Details
49040	Synonym creation error *error_condition*	**Type of Message:** Error
		Cause: The indicated SQL statement references a synonym, but the specified error occurred when attempting to create the synonym on TimesTen.
		Impact: The TimesTen Cache Advisor recommendation does not include any columns or tables for the indicated SQL statement.
		User Action: Address the error condition by making changes in the TimesTen Cache Advisor database repository. Also, ensure that you apply these changes on your target Oracle database. Then run the ttCacheAdvisor utility to capture a new workload.
		For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49041	Caching for this SQL statement has no projected performance advantage	**Type of Message:** Informational
		Cause: There is not a performance advantage when you run the SQL statement on your TimesTen Cache as compared with your Oracle database.
		Impact: The TimesTen Cache Advisor does not recommend caching columns or tables for the indicated SQL statement.
		User Action: Tune the application schema in the TimesTen Cache Advisor database repository to work better with the TimesTen Cache. Also, ensure that you apply these changes on your target Oracle database. Then run the ttCacheAdvisor utility with the -evalSqlPerf option.
		For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the ttCacheAdvisor utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
49042	Error occurred during performance evaluation	**Type of Message:** Informational
		Cause: The indicated SQL statement returned a different status code on the TimesTen Cache than on the target Oracle database.
		Impact: The TimesTen Cache Advisor does not recommend caching columns or tables for the indicated SQL statement.
		User Action: In the TimesTen Cache Advisor repository, modify either the SQL statement or the tables and columns that the SQL statement references or both. Then run the `ttCacheAdvisor` utility to capture a new workload.
		For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.
49043	Bind values for SQL statement *sql_statement* were not captured or included with the workload; therefore, the statement could not be performance evaluated	**Type of Message:** Warning
		Cause: The SQL statement contains bind values and was not captured with the workload. The `-add -sqlStatementsTab` option of the `ttCacheAdvisor` utility does not support inclusion of bind values.
		Impact: The indicated SQL statement cannot be performance evaluated.
		User Action: `ALTER` the indicated SQL statement to not use bind values. Then run the `ttCacheAdvisor` utility to capture a new workload.
		For more information about the TimesTen Cache Advisor, see "Cache Advisor overview" in the *Oracle TimesTen Application-Tier Database Cache User's Guide*. For more information on the `ttCacheAdvisor` utility, see "ttCacheAdvisor" in the *Oracle TimesTen In-Memory Database Reference*.

Errors 50000 - 59999

Error number	Error or warning message	Details
51000	Failed to read log marker packet	**Type of Message:** Error
		Cause: The transaction log on disk may be corrupted. The transaction log may have not been written properly.
		Impact: TimesTen failed to read the transaction log.
		User Action: Contact TimesTen Customer Support.

Error number	Error or warning message	Details
51001	Failed to locate next log record in rdlog	**Type of Message:** Error **Cause:** The transaction log on disk may be corrupted. The transaction log may have not been written properly. **Impact:** TimesTen failed to read the transaction log. **User Action:** Contact TimesTen Customer Support.
51002	Failed to locate next log record in the strand *strand*	**Type of Message:** Error **Cause:** The transaction log on disk may be corrupted. The transaction log may have not been written properly. **Impact:** TimesTen failed to read the transaction log. **User Action:** Contact TimesTen Customer Support.
51003	Failed to locate next log record in the block	**Type of Message:** Error **Cause:** The transaction log on disk may be corrupted. The transaction log may have not been written properly. **Impact:** TimesTen failed to read the transaction log. **User Action:** Contact TimesTen Customer Support.
51004	Failed to map idmap(logical) to lsn(physical)	**Type of Message:** Error **Cause:** The transaction log on disk may be corrupted. The transaction log may have not been written properly. **Impact:** TimesTen failed to read the transaction log. **User Action:** Contact TimesTen Customer Support.
51005	Failed to preallocate log file *file_name.extension* with mode = *mode*	**Type of Message:** Error **Cause:** TimesTen cannot allocate enough disk space for the log file. **Impact:** The database cannot continue normal operations. **User Action:** Ensure that there is enough space on disk to at least store a log file of the size specified in the LogFileSize attribute. For more information on the LogFileSize attribute, see "LogFileSize" in the *Oracle TimesTen In-Memory Database Reference*.

Error number	Error or warning message	Details
51006	Failed to flush to lwn = *LWN_boundary*	**Type of Message:** Error **Cause:** Timesten cannot flush the log up to the specified log write number (LWN) boundary. **Impact:** The database cannot continue normal operations. **User Action:** Contact TimesTen Customer Support.
51007	Failed to switch to lwn = *LWN_boundary* in strand *strand*	**Type of Message:** Error **Cause:** Timesten cannot advance the specified log write number (LWN) boundary in the specific strand. **Impact:** The database cannot continue normal operations. **User Action:** Contact TimesTen Customer Support.
51008	Failed to insert a log marker	**Type of Message:** Error **Cause:** Timesten cannot insert a log marker to the log buffer. **Impact:** The database cannot continue normal operations. **User Action:** Contact TimesTen Customer Support.

2

Server Event Log Entries

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\TimesTen1122\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 `send`. 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.
5	`Socket recv() failed. Error_message`	This message is caused by the failure of the system call `recv`. Consult your system documentation to determine the cause of this error.

Event ID	Message	Description
6	Disconnecting client: *Client_host_name* (*domain_name*); IP Address: *client_IP*; Client PID: *client_PID*; DSN: *server_DSN*; UID: *client_UID*; Total connect time: *ddd hh:mi:ss*; Total execution time: *ddd hh:mi: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\TimesTen1122\Servers*logical_ server*\TCP_Port from registry. Ensure that you did not modify registry entries manually.
9	Server is exiting. Could not cd to *path*. OS reports error(*error_number*): *error_message*	This message is caused by the failure of the system call chdir. Ensure 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. Ensure that TimesTen Data Manager daemon/service is running.
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.

Event ID	Message	Description
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.
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* (*client_domain_name*); IP Address: *client_IP*; Client PID: *client_PID*; DSN: *server_DSN*; UID: *client_UID*	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* (*client_domain_name*); IP Address: *client_IP*; Client PID: *client_PID*; DSN: *server_DSN*; UID: *client_UID*; SQL State: *SQL_state*; Error: *error_message*	This error is generated if SQLDriverConnect 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 Microsoft ODBC Programmer's Reference and SDK Guide that is included with the ODBC SDK.
18	Server is exiting. Failed to create REQUEST semaphore for IPC. *Error_message*	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_message*	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.

Event ID	Message	Description
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 "Managing the size of the shared memory segment" in the *Oracle TimesTen In-Memory Database Operations Guide* to configure this properly. This message generated only for a connection that uses a shared memory segment as the IPC mechanism.
21	Server is exiting. Failed to open 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.
25	Server is exiting. Socket initialization failed. *Error_message*	Windows platforms only. Call to WSAStartup 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_message*	Failed to set a socket option of boolean type. Contact customer support for assistance.
32	Server is exiting. socket() failed. *Error_message*	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_message*	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_message*	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_message*	This message is caused by a failure of the system call listen. Consult your system documentation to determine the cause of this error.
36	Successful TimesTen Server startup. Version: *server_version_number*; Host: *server_host_name* (*server_domain_name*); IP Address: *server_IP*; port: *port_number*, max connections: *max_connections_allowed*	This message is informational only.

Event ID	Message	Description
37	Client protocol version *client_version* is not supported by this server, which uses version *server_version*. Attempting to renegotiate protocol level.	There is a version mismatch between the TimesTen Client and TimesTen Server.
40	Server is exiting. *Error_message*. A TimesTen Server is already active on this port	An attempt was made to start the TimesTen Server on a system 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	Socket accept() failed. *Error_message*	This message is caused by the failure of the system call accept. Consult your system documentation to determine the cause of this error.
57	Error creating a mutex to communicate with separate server process. *Error_message*	The communication setup between the main and child servers could not be set up properly. Contact customer support for assistance.
58	Error creating or mapping mapped file to communicate with separate server process. *Error_message*	The event logged just prior to this one has further details, if any.
59	Error creating separate server process. *Error_message*	Operating system error. Make a note of the system error number and then contact your system administrator.
60	Error creating waitpid thread. *Error_message*	Operating system error. Make a note of the system error number and then contact your system administrator.
61	Internal error in TimesTen Server. File: *source_file_name*; line: *line_number*	Contact customer support for assistance.
62	Connection refused. Server is processing a configured maximum of *number* connections	This message means that the maximum number of clients are currently connected. For more information on the maximum supported number of concurrent client connections for a TimesTen database and instance, see "System limits and defaults" in the *Oracle TimesTen In-Memory Database Reference*.
67	Failed to allocate memory. File: *source_file_name*; line: *line_number*; size: *failed_malloc_size*	Note that sometimes the size is logged as zero if for some reason TimesTen Server cannot determine it at the time of logging.

Event ID	Message	Description
68	Failed to read request from client. Closing connection without reply.	The server connection to a client application failed. Common causes are:
		- The client application exited without invoking the SQLDisconnect function.
		- The waiting time specified in the TTC_Timeout attribute for the client application was exceeded.
		For more information on the SQLDisconnect function, see "Managing TimesTen database connections" in the *Oracle TimesTen In-Memory Database C Developer's Guide*. For more information on the TTC_Timeout client connection attribute, see "TTC_Timeout" in the *Oracle TimesTen In-Memory Database Reference*.
69	Child server died due to SEGV signal *error_message*	A SQL request caused a thread stack overflow. Try increasing the value for the ServerStackSize attribute. For more information on the ServerStackSize server connection attribute, see "ServerStackSize" in the *Oracle TimesTen In-Memory Database Reference*.
70	Invalid value *specified_value* for *attribute*: should be in range *min_value* to *max_value*. Using *used_value*	The specified value for the specified attribute is invalid. The message identifies the valid range for the specified attribute value.
71	Connect received from client: *client_host_name* (*client_domain_name*); IP address: *client_IP*; Client PID: *client_PID*; DSN: *server_DSN*; UID: *client_UID*	This message is informational only.
99	*Log_message*	Certain informational/error messages are logged with this event id.

3

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.

The following sections describe SNMP and traps in TimesTen:

- TimesTen and SNMP
- SNMP data types
- Trapping out of space messages
- How TimesTen sends SNMP traps
- Generating and receiving SNMP traps
- Configuring the snmp.ini file
- Trap truncation on overflow
- The TimesTen MIB
- The traps
- Trap names and severity levels
- Example

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
- Database invalid
- Replicated transaction failure
- Database 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`
- `ttDSNConn`
- `ttDSCurSize`
- `ttDaeInst`
- `ttRepReceiverPort`
- `ttDSReqSize`
- `ttDaePid`
- `ttDSMaxSize`
- `ttCacheAgentPid`

The rest of the variables are `ASN_OCTET_STRING` type.

Trapping out of space messages

By default, TimesTen records that database space is low based on the region space thresholds of `PermWarnThreshold` and `TempWarnThreshold` attributes. If the `PermWarnThreshold`, which defines the permanent database memory region threshold, is set to 90, TimesTen records a message that the permanent database memory is full. Once the database permanent memory becomes 10% less than the set threshold, which in this case would be 80% full, TimesTen records a second message indicating that the database is no longer low on space.

When connecting to a database, 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 Reference*.

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 and receiving SNMP traps

To enable SNMP trap generation, change the line `-enabled 0` in the `snmp.ini` to `1`. 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 database, the application may experience a performance slowdown due to generation of SNMP traps.

You must have network management software to receive SNMP traps.

Configuring the snmp.ini file

The configuration file *install_dir*/info/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:** *install_dir* represents the path of the TimesTen installation.

The file contents are:

Component	Description
enabled {0|1}	Disable or enable SNMP trap generation.
-community {string}	The SNMP community string. Default is "public."
-trapdest {host:portnumber}	The SNMP agent host name and port number where SNMP trap messages are received. The default host is "localhost." The default port number where the SNMP agent listens is 162.
	Up to 8 destinations may be specified.in the snmp.ini file.
-trapport {portnumber}	To receive SNMP traps on the local system when you do not want to use the default port, specify the port number with the -trapport option. The default port number is 162. If neither -trapdest or -trapport are specified, traps are sent to the default, which is localhost on the IPv4 loopback address and port 162.

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   Settings for one target destination

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   Settings for multiple target destinations

To send messages and set multiple target destinations, 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"
-trapdest "pluto:10999"
-trapdest "mymachine:189"
```

Example 3–3   Settings to disable SNMP trap generation

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.

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:**   You can 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, 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

Table 3–1 describes each trap and its severity level.

Table 3–1   Trap Description and Severity Levels

Trap name	Severity level	Description
`ttAssertFailTrap`	Error	TimesTen Assertion Failure.
`ttAsyncMVFailed`	Warning	A refresh of Asynchronous materialized view failed. The SNMP trap includes dsname, daemon PID and viewid. If the error is due to a transient error, such as locking, the refresh may succeed in the next refresh.
`ttCacheAgentDiedTrap`	Error	The TimesTen Application-Tier Database Cache daemon died.
`ttCacheAgentFailoverTrap`	Warning	The cache agent detected that a connection to the Oracle database had been lost and has begun to recover the connection.
`ttCacheAutoRefFailedTrap`	Error	TimesTen Application-Tier Database Cache incremental autorefresh failed.
`ttCacheAutorefreshDsMarkedDeadTrap`	Warning	TimesTen Application-Tier Database Cache incremental autorefresh failed. The cache agent for a remote datastore has stopped or is no longer responding. Autorefresh for the remote datastore has been disabled.
`ttCacheAutorefreshLogSpaceDeFragDetectedTrap`	Warning	Some of the autorefresh change log tables on the Oracle database are fragmented. For more information on how to defragment log tables, see "Fragmented autorefresh change log table space" in the *Oracle TimesTen In-Memory Database Troubleshooting Guide*.
`ttCacheAwtRtReadFailedTrap`	Error	For Asynchronous Writethrough cache groups, runtime information is stored on the Oracle database instance. While reading this information from the Oracle database, replication either could not find the runtime data table (`tt_version_reppeers`) or could not find the information within the table.
`ttCacheAwtRtUpdateFailedTrap`	Error	For Asynchronous Writethrough cache groups, runtime information is stored on the Oracle database 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.
`ttCacheCgNotAutorefreshedTrap`	Warning	The cache group will not be autorefreshed. Instead, it must be manually recovered by performing manual load or refresh cache group.
`ttCacheLowOracleTblSpace`	Warning	The tablespace the cache admin user is using is below the minimum threshold.
`ttCacheRecoveryAutorefreshTrap`	Warning	The Cache Agent is performing a full autorefresh. This may be needed when a change log table on the Oracle database was truncated because of lack of tablespace for the cache administration user.
`ttCacheValidationAbortedTrap`	Error	The Cache Agent aborted cache group validation because of an irrecoverable error. Please refer to the user error log for details.

Table 3–1   (Cont.) Trap Description and Severity Levels

Trap name	Severity level	Description
ttCacheValidationErrorTrap	Error	The Cache Agent has detected irrecoverable anomalies with cache group *cache-group-name* that will prevent it from properly refreshing the cache group, or it has detected irrecoverable anomalies within the refresh interval *time-in-ms.* Please refer to the user error log for details.
ttCacheValidationWarningTrap	Warning	The Cache Agent has detected anomalies with cache group *cache-group-name* that may prevent it from properly refreshing the cache group. Please refer to the user error log for details.
ttDSCkptFailedTrap	Error	A checkpoint has failed. Check the user error log and get view the checkpoint history using the built-in procedure ttCkptHistory.
ttDaemonOutOfMemoryTrap	Error	Call to malloc failed in TimesTen daemon.
ttDSDataCorruptionTrap	Error	Database corruption error has occurred.
ttDSGoingInvalidTrap	Error	Setting database to invalid state. Database invalidation usually happens when an application that is connected to the database is killed or exits abruptly without first disconnecting from the database.If TimesTen encounters an irrecoverable internal error during a database operation, it may also invalidate the database.You must commit or rollback and recover the database.
ttDSThreadCreateFailedTrap	Error	A process (typically multi-threaded) having multiple connections to a database 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 database is invalidated.
ttFileWriteErrorTrap	Error	Error encountered during file I/O write.
ttMainDaemonDiedTrap	Error	Main or sub daemons died abnormally. This message is sent by a subdaemon when it notices that the main daemon has died. It suggests that the main daemon has been killed or has crashed.You must restart the main daemon.
ttMainDaemonExitingTrap	Informational	Main or sub daemons exiting normally.
ttMainDaemonReadyTrap	Informational	Main daemon has started.
ttMsgLogOpenFailedTrap	Error	The message log could not be opened, possibly because of a lack of privileges on the file. Check the file location and privileges.

Table 3–1   (Cont.) Trap Description and Severity Levels

Trap name	Severity level	Description
ttPartitionSpaceExhaustedTrap	Error	Database memory region (permanent or temporary) space is exhausted. This message is sent when either the permanent or temporary free space in the database is exhausted. Generally this message is preceded by the ttPartitionSpaceStateTrap warning message. See "PermWarnThreshold" and "TempWarnThreshold" in *Oracle TimesTen In-Memory Database Reference* for information on how to set the threshold.
ttPartitionSpaceStateTrap	Warning	Database memory region (permanent or temporary) space is transitioning from OK to low or vice versa. This message is sent when either the permanent memory region or the temporary memory region free space in the database reaches a threshold or transitions back below the threshold. This message is sent only when the free space has reached the threshold specified by the PermWarnThrehold or TempWarnThreshold attribute at the time of the first connection to the database. See "PermWarnThreshold" and "TempWarnThreshold" in *Oracle TimesTen In-Memory Database Reference* for information on how to set the threshold.
ttQueryThresholdWarnTrap	Warning	A SQL query exceeded the user-specified threshold. The text of the query can be found n the user log message. The Transaction ID and the Statement ID of the query can be found both in the trap and the user log message. After issuing the trap, the query continues executing.
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.
ttRepCatchupStartTrap	Warning	Indicates that TimesTen has begun to restore a master from a subscriber where bi-directional replication has been configured, after a failure.
ttRepAgentStateChange	Informational	Indicates the state of the replication agent. The possible states of the replication agent are ACTIVE, FAILED, IDLE, RECOVERING, STANDBY, and UNKNOWN. TimesTen only sends this trap when the state of the replication agent changes.
ttRepCatchupStopTrap	Warning	Indicates that TimesTen has restored a master database from a subscriber, where bi-directional replication was configured.

Table 3–1 (Cont.) Trap Description and Severity Levels

Trap name	Severity level	Description
`ttRepConflictReportStartingTrap`	Informational	Indicates that conflict reporting has been restarted because the rate of conflicts has fallen below the low water mark set in the replication scheme. This trap also indicates how many conflicts went unreported during the period in which reporting was suspended.
`ttRepConflictReportStoppingTrap`	Informational	Indicates that suspension of conflict reporting has occurred because the rate of conflicts has exceeded the high water mark set in the replication scheme.
`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.
`ttRepSubscriberTCPConnectFailedTrap`	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 database recovery. If your application connected with `LogAutoTruncate=1` (the default), this trap represents a warning, recovery continues with error messages. If your application connected with `LogAutoTruncate=0`, recovery fails with error messages.

Example

A typical TimesTen trap may supply the following information:

```
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: 11.2.2.0.0
Date: 2008/07/07 18:24:10, instance giraffe"
enterprises.timesten.ttMsg, ttMesg "Data store going Invalid (from master daemon)"
enterprises.timesten.ttDataStore.ttDSName = "tptbmdata1122"
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 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 `ttsrv1122.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 database name, shared memory key of the database and the number of current connections to the database.

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