IBM Tivoli Storage Area Network Manager

Messages

Version 1  Release 3
Note!

Before using this information and the product it supports, be sure to read the general information under "Notices," on page 41.

Third Edition (December 2003)

This edition applies to version 1, release 3 of the IBM Tivoli Storage Area Network Manager (product numbers 5698-SRE and 5698-SRS) and to any subsequent releases until otherwise indicated in new editions.

Changes since the previous edition are marked with a vertical bar (|) in the left margin. Ensure that you are using the correct edition for the level of the product.

Order publications through your sales representative or the branch office serving your locality.

Your feedback is important in helping to provide the most accurate and high-quality information. If you have comments about this book or any other IBM Tivoli Storage Area Network Manager documentation, please see "Contacting customer support" on page vi.

© Copyright International Business Machines Corporation 2002, 2003. All rights reserved.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.
# Contents

**Preface** .............................................. v
IBM Tivoli Storage Area Network Manager ............................................. v
Related Publications ......................................................................................... v
IBM International Technical Support Center publications (Redbooks) .......... vi
IBM Tivoli Storage Area Network Manager Web site ................................... vi
Contacting customer support ......................................................................... vi
Reporting a problem ....................................................................................... vii
Translations ................................................................................................. vii

**Chapter 1. Introduction** ................................................................. 1
Understanding messages ...................................................................................... 1
Getting help ....................................................................................................... 1
  IBMLink Assistance ....................................................................................... 1
  Describing an error with keywords ............................................................. 2

**Chapter 2. Messages** ................................................................. 5
BTAAC messages .............................................................................................. 5
BTACD messages .............................................................................................. 5
BTACE messages .............................................................................................. 6
BTACL messages .............................................................................................. 9
  BTACM messages ......................................................................................... 10
  BTACS messages ......................................................................................... 10
  BTADE messages ......................................................................................... 13
  BTAEC messages ......................................................................................... 16
  BTAFI messages ......................................................................................... 16
  BTAHM messages ......................................................................................... 18
  BTAHQ messages ......................................................................................... 19
  BTAIC messages ......................................................................................... 19
  BTAMS messages ......................................................................................... 20
  BTAOC messages ......................................................................................... 20
  BTAQE messages ......................................................................................... 22
  BTASA messages ......................................................................................... 27
  BTASC messages ......................................................................................... 28
  BTASD messages ......................................................................................... 29
  BTASS messages ......................................................................................... 37
  BTAZC messages ......................................................................................... 37

**Appendix. Notices** ................................................................. 41
Trademarks ....................................................................................................... 42

**Glossary** ................................................................................................. 45
Preface

This publication contains explanations and suggested actions for messages issued by IBM Tivoli Storage Area Network Manager.

IBM Tivoli Storage Area Network Manager Publications

The following table lists IBM Tivoli Storage Area Network Manager publications.

<table>
<thead>
<tr>
<th>Publication Title</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli Storage Area Network Manager User’s Guide</td>
<td>SC23-4698</td>
</tr>
<tr>
<td>IBM Tivoli Storage Area Network Manager Planning and Installation Guide</td>
<td>SC23-4697</td>
</tr>
<tr>
<td>IBM Tivoli Storage Area Network Manager Messages</td>
<td>SC32-0953</td>
</tr>
<tr>
<td>IBM Tivoli Storage Area Network Manager Warehouse Enablement Pack: Implementation Guide</td>
<td>SC23-4699</td>
</tr>
</tbody>
</table>

The Tivoli Storage Area Network Manager library in all translated languages is available on the following CD-ROM:

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli Storage Area Network Manager Publications CD-ROM</td>
<td>SCD7-0463</td>
</tr>
</tbody>
</table>

The publications are also available from the Tivoli publications Web site: [http://www.ibm.com/software/tivoli/library/](http://www.ibm.com/software/tivoli/library/)

Related Publications

The following table lists related IBM product publications.

<table>
<thead>
<tr>
<th>Title</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM Tivoli Storage Area Network Manager: A Practical Introduction</td>
<td>SG24-6848</td>
</tr>
<tr>
<td>Introduction to Storage Area Network, SAN</td>
<td>SG24-5470</td>
</tr>
<tr>
<td>Designing an IBM Storage Area Network</td>
<td>SG24-5758</td>
</tr>
<tr>
<td>NetView for Windows NT Programmer’s Reference</td>
<td>SC31-8890</td>
</tr>
<tr>
<td>NetView for Windows User’s Guide</td>
<td>SC31-8888</td>
</tr>
</tbody>
</table>

The Tivoli Software Glossary includes definitions for many of the technical terms related to Tivoli software. The Tivoli Software Glossary is available, in English only, at the following Web site:

IBM International Technical Support Center publications (Redbooks)

The International Technical Support Center (ITSC) publishes redbooks, which are books on specialized topics. You can order publications through your IBM representative or the IBM branch office serving your locality. You can also search for and order books of interest to you by visiting the IBM Redbooks home page at:

http://www.redbooks.ibm.com/redbooks

IBM Tivoli Storage Area Network Manager Web site

To find the latest IBM Tivoli Storage Area Network Manager product information, support information, and publications begin at this Web site:

http://www.ibm.com/software/support/ You should search on the full string "IBM Tivoli Storage Area Network Manager."

Contacting customer support

For support for this or any Tivoli product, you can contact IBM customer support in one of the following ways:

• Visit the IBM Tivoli Storage Area Network Manager technical support Web site at [http://www.ibm.com/software/support/]

• Submit a problem management record (PMR) electronically at IBMSERV/IBMLINK. You can access IBMLINK at [http://www.ibmlink.ibm.com]


Customers in the United States can also call 1-800-IBM-SERV (1-800-426-7378).

International customers should consult the Web site for customer support telephone numbers.

You can also review the IBM Software Support Handbook, which is available on our Web site at [http://techsupport.services.ibm.com/guides/handbook.html]

When you contact customer support, be prepared to provide identification information for your company so that support personnel can readily assist you. Company identification information may also be needed to access various online services available on the Web site.

The support Web site offers extensive information, including a guide to support services (the IBM Software Support Handbook); frequently asked questions (FAQs); and documentation for all IBM Software products, including Release Notes, Redbooks, and Whitepapers. The documentation for some product releases is available in both PDF and HTML formats. Translated documents are also available for some product releases.

All Tivoli publications are available for electronic download or order from the IBM Publications Center [http://www.ibm.com/software/tivoli/library/]

We are very interested in hearing about your experience with Tivoli products and documentation. We also welcome your suggestions for improvements. If you have comments or suggestions about our documentation, please complete our customer feedback survey at

**Reporting a problem**

Please have the following information ready when you report a problem:

- The IBM Tivoli Storage Area Network Manager version, release, modification, and service level number.
- The communication protocol (for example, TCP/IP), version, and release number you are using.
- The activity you were doing when the problem occurred, listing the steps you followed before the problem occurred.
- The exact text of any error messages.

Depending on the problem, you may also want to provide the following information:

- The switch vendor, model, and firmware level
- The HBA vendor, model, driver level, OS platform it is running with
- The storage device vendor, model, and code

**Translations**

Selected Tivoli Storage Area Network Manager publications have been translated into languages other than American English. Contact your service representative for more information about the translated publications and whether these translations are available in your country.
Chapter 1. Introduction

IBM Tivoli Storage Area Network Manager helps you manage your resources by providing network resource discovery and management capabilities.

Messages can appear on the server console or an operator terminal. To help you track server activity and monitor the system, the messages are logged in text files. You can view the files with a standard editing program, such as IBMLink Notepad. By default, the log files are located in the <install_dir>\log directory on the manager machine. Before using Tivoli Storage Area Network Manager, you should configure the message logs. See the IBM Tivoli Storage Area Network Manager User’s Guide for details about configuring and viewing the log files.

Understanding messages

The following examples describe the Tivoli Storage Area Network Manager message format:

BTA AC 0001 I

Where:

BTA Identifies the product as Tivoli Storage Area Network Manager.
AC Identifies the component. See “Component identification keyword” on page 2 for a list of components and their identifiers.
0001 Message number.
I Message type. Where
  I = Information
  E = Error
  W = Warning

Message text variables appear in italics.

Getting help

This section describes the following:

• How to obtain help with processing errors by using Internet and IBMLink/ServiceLink
• How to describe errors with keywords
• How to obtain online message help
• What information to have available when you contact your service representative

IBMLink Assistance

Tivoli Storage Area Network Manager message help explanations may suggest that you contact your service representative for additional help with processing errors.

Online help is available through IBMLink/ServiceLink.

If your installation has access to IBMLink/ServiceLink, an interactive online database program, you can:
• Search for an existing authorized program analysis report (APAR) that is similar to your problem.
• Search for an available program temporary fix (PTF) for the existing APAR.
• Order the PTF if it is available.
• Create an Electronic Technical Response (ETR) problem report to get assistance from a Tivoli Storage Area Network Manager service representative.

Describing an error with keywords
When you use IBMLink/Servicelink or call your service representative, accurately describe the problem so that the service representative may quickly help you solve the problem. Identify the processing error with a full set of keywords whenever possible. A keyword is a word or an abbreviation used to describe a single aspect of a program failure. Each keyword describes an aspect of a processing error.

The following example displays the necessary set of keywords:

56980200n R130 type command function

<table>
<thead>
<tr>
<th>Where</th>
<th>Represents</th>
</tr>
</thead>
<tbody>
<tr>
<td>56980200n</td>
<td>Component identification keyword</td>
</tr>
<tr>
<td>R131</td>
<td>Release level keyword</td>
</tr>
<tr>
<td>type</td>
<td>Type-of-failure keyword</td>
</tr>
<tr>
<td>command</td>
<td>Command keyword</td>
</tr>
<tr>
<td>function</td>
<td>Function keyword</td>
</tr>
</tbody>
</table>

Component identification keyword
The component identifiers for Tivoli Storage Area Network Manager are listed below:

<table>
<thead>
<tr>
<th>AC</th>
<th>Common Agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>Database Verifier</td>
</tr>
<tr>
<td></td>
<td>SAN Database Service</td>
</tr>
<tr>
<td>CE</td>
<td>SAN Event Service</td>
</tr>
<tr>
<td></td>
<td>Messaging Middleware</td>
</tr>
<tr>
<td>CL</td>
<td>License Use Management Service</td>
</tr>
<tr>
<td>CM</td>
<td>Change Monitor</td>
</tr>
<tr>
<td>CS</td>
<td>Service Manager</td>
</tr>
<tr>
<td>DE</td>
<td>Discover Engine</td>
</tr>
<tr>
<td>EC</td>
<td>Event Correlator</td>
</tr>
<tr>
<td>FI</td>
<td>Error Detection Fault Isolation</td>
</tr>
<tr>
<td>HM</td>
<td>Host Manager</td>
</tr>
<tr>
<td>HQ</td>
<td>Host Query</td>
</tr>
<tr>
<td>IC</td>
<td>Inband Change Agent</td>
</tr>
<tr>
<td>MS</td>
<td>Messaging Service</td>
</tr>
<tr>
<td>OC</td>
<td>SNMP Change Agent</td>
</tr>
<tr>
<td>QE</td>
<td>Query Engine</td>
</tr>
<tr>
<td>SA</td>
<td>Scanner Agent</td>
</tr>
<tr>
<td>SC</td>
<td>Status Cache</td>
</tr>
<tr>
<td>SD</td>
<td>SAN Manager Daemon</td>
</tr>
<tr>
<td>SS</td>
<td>CIMOM server service</td>
</tr>
<tr>
<td>ZC</td>
<td>Zone Control</td>
</tr>
</tbody>
</table>
Type-of-Failure keyword
The following keywords identify the type of failure that may occur:

<table>
<thead>
<tr>
<th>Keyword</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABENDxxx</td>
<td>Use this keyword when the system ends abnormally.</td>
</tr>
<tr>
<td>INCORROUT</td>
<td>Use this keyword when incorrect output is received or expected output is missing.</td>
</tr>
<tr>
<td>LOOP</td>
<td>Use this keyword if a part of the program code runs endlessly; include situations in which a part of the output repeats continuously.</td>
</tr>
<tr>
<td>MSGBTAnnnnt</td>
<td>Use this keyword when a message:</td>
</tr>
<tr>
<td></td>
<td>• Indicates an internal program error</td>
</tr>
<tr>
<td></td>
<td>• Is issued in a set of conditions that should not cause it to be issued</td>
</tr>
<tr>
<td></td>
<td>• Contains invalid or missing data</td>
</tr>
<tr>
<td>WAIT</td>
<td>Use this keyword when you receive no response within a reasonable time that can be perceived as poor response or poor performance.</td>
</tr>
<tr>
<td>xxxxxxxxxx</td>
<td>Use this keyword when a programming problem appears to be</td>
</tr>
<tr>
<td>(Documentation)</td>
<td>caused by incorrect, missing, or ambiguous information in one of the Tivoli Storage Area Network Manager publications. Enter the order number of the publication in place of xxxxxxxxxx. Include the letter prefix and version number, but omit all hyphens, for example, SC324697000. Refer to &quot;IBM Tivoli Storage Area Network Manager Publications&quot; on page v for a list of the Tivoli Storage Area Network Manager publications.</td>
</tr>
<tr>
<td>PERFM</td>
<td>Use the performance keyword only when system performance cannot be improved by tuning and performance is below explicitly stated expectations.</td>
</tr>
</tbody>
</table>

Command keyword
Build keywords based on Tivoli Storage Area Network Manager commands. Refer to IBM Tivoli Storage Area Network Manager User’s Guide for a list of the commands.

Function keyword
Use keywords that refer to Tivoli Storage Area Network Manager functions.
Chapter 2. Messages

The messages in this chapter are in alphanumerical order. The chapter is divided into sections that are named for the first five characters of the messages they contain.

BTAAC messages

BTAAC2801E  The item was not found.
Explanation: IBM® Tivoli® Storage Area Network Manager could not find the required item.
System Action: The operation fails.
Administrator Response: Correct the condition that caused the operation to fail.

BTAAC2802E  The reason unexpected exception.
Explanation: The operation failed with an unexpected exception error.
System Action: The operation fails.
Administrator Response: Correct the condition that caused the operation to fail.

BTAAC2803E  The reason san.DiskManagerHostQueryLog.
Explanation: An error was detected in HostQueryLog.
System Action: The operation fails.
Administrator Response: Correct the condition that caused the operation to fail.

BTACD messages

BTACD0010I  IBM Tivoli Storage Area Network Manager (Configuration Service) initialized successfully.
Explanation: Configuration Service initialized successfully.

BTACD0011E  An error occurred while reading properties from file file name
Explanation: There was an error reading from the specified file. This file contains configuration data and is required for the product to initialize.
System Action: The service fails to initialize. The product cannot continue processing.
Administrator Response: Verify that the specified file exists and is not corrupt.

• If the file does not exist, restore from a backup copy or reinstall the product.
• If the file exists, verify that it does not have unreadable characters. The file should contain only standard English text characters, integers, and local machine names.

If the problem continues, contact IBM customer support.

BTACD0012I  Properties were successfully read from file file name
Explanation: Startup properties were successfully loaded.
BTACD0013E • BTACE0033E

BTACD0013E  Exception occurred while saving the properties file file name.

Explanation: There was an error saving the specified properties file. Updates have not been saved. There might be a problem with the file or you might not have permission to write to the file.

System Action: Service continues, but the attempt to save changes to the specified file was unsuccessful.

Administrator Response: Try to save the properties file again.

If the problem continues, make sure that you have write permission to the file.

BTACD0014E  An error was received while attempting to remove a callback key.

Explanation: There was an error removing a callback. Either it has already been deregistered or the key was invalid. This is an internal error that should not affect the product function.

System Action: Service continues.

BTACD0015E  An error was received while attempting to get the database driver driver name.

Explanation: There was an error loading the database driver. Either the driver does not exist or the driver name is incorrect.
- If the driver name in this error message is not COM.ibm.db2.jdbc.net.DB2Driver, then the tsnmdbparms.properties file is incorrect.
- If the driver name is correct, then verify that DB2java.zip exists in the manager\apps\was\installedApps\DefaultNode\itsanm.ear\manager.war\WEB-INF\lib directory and that it contains the specified driver file.

System Action: The service fails to initialize.

Administrator Response: Restart the product. If the problem continues, contact IBM customer support.

BTACD0016E  An error was received while decrypting the database password.

Explanation: There was an error decrypting the database password. Either the encrypted password does not exist, it has been corrupted, or the installation has been corrupted.
- If the tivoli.sanmgmt.jdbc.dbPassword field in the tsnmdbparms.properties file does not contain a 72 character value, then the file is either incorrect or corrupt.
- If the properties file is correct, then the product might not have installed correctly.

System Action: Service fails to initialize.

Administrator Response: Restart the product. If the problem continues, contact IBM customer support.

BTACD0017E  There was an error in setting the WAS Admin password.


BTACE messages

BTACE0030I  IBM Tivoli Storage Area Network Manager (Event Service) initialized successfully.

Explanation: SAN Event Services has initialized successfully.

BTACE0031I  A SAN Event message was received from: publisher name.

Explanation: SAN Event Service has received a message from the publisher indicated.

BTACE0032E  Missing SNMP destination address. SNMP trap was not sent.

Explanation: There is no address to forward SNMP traps to. You can specify an SNMP server to forward events, or traps, to. The SNMP server can be configured to perform actions based on the events it receives.

System Action: This will not affect the processing of the system. However, the SNMP event will not be forwarded to an SNMP destination.

Administrator Response: Use the Event Destination user interface panel to specify the address of the SNMP server you would like to forward these events to.

BTACE0033E  An error occurred when trying to send an event to the Tivoli Enterprise Console® server.

Explanation: An exception occurred when trying to send an event to the Tivoli Enterprise Console server.

System Action: Processing continues, but the event is not sent. The event is saved and will be sent later.

Administrator Response: Use the Event Destination user interface panel to verify the address of the Tivoli Enterprise Console server is valid.
BTACE0034E The Tivoli Enterprise Console server location has not been specified.

**Explanation:** There is no location set up for sending the Tivoli Enterprise Console event to.

**System Action:** Processing continues, but the event is not sent. The event is saved and will be sent later.

**Administrator Response:** Use the Event Destination user interface panel to specify the address of the Tivoli Enterprise Console server you would like to send the event to.

BTACE0035E JMSException: exception

**Explanation:** An exception was received from the messaging service.

**System Action:** The system fails to process this message but continues to process other messages.

**Administrator Response:** Refer to the logged exception and identify the problem. If the problem continues, contact IBM customer support.

BTACE0037E An error occurred during the process of forwarding an SNMP trap or sending a Tivoli Enterprise Console event.

**Explanation:** SAN Event Service has received an error while attempting to process an SNMP trap or a Tivoli Enterprise Console event.

**System Action:** System fails to process this message, but continues to process other messages.

**Administrator Response:** Refer to the logged exception and identify the problem. If the problem continues, contact IBM customer support.

BTACE0039E Unable to save the SnmpAddress entry to the properties file.

**Explanation:** There was an error saving the SnmpAddress entry to the properties file. Updates have not been saved. There might be a problem with the file or you might not have permission to write to the file.

**System Action:** Service continues, but the attempt to save the SnmpAddress entry from the specified file was unsuccessful.

**Administrator Response:** Try to save the SnmpAddress entry again and make sure that you have write permission to the properties file properties file. If the problem continues, contact IBM customer support.

---

BTACE0041E Unable to save the SAN Domain ID to the properties file.

**Explanation:** There was an error saving the SAN Domain ID to the properties file. Updates have not been saved. There might be a problem with the file or you might not have permission to write to the file.

**System Action:** Service continues, but the attempt to save the SAN Domain ID to the specified file was unsuccessful.

**Administrator Response:** Try to save the SAN Domain ID again and make sure that you have write permission to the properties file properties file. If the problem continues, contact IBM customer support.

BTACE0042E Unable to read the SNMP and Tivoli Enterprise Console server address entries from the properties file.

**Explanation:** There was an error reading the SNMP and Tivoli Enterprise Console server address entries from the properties file. There might be a problem with the file or you might not have permission to read the file. This error can also occur if the ConfigService is down.

**System Action:** Service continues, but the SAN events won’t be forwarded to the SNMP and Tivoli Enterprise Console servers specified in the properties file.

**Administrator Response:** Make sure the ConfigService is up and that you have permission to read the properties file properties file. And then restart the service. If the problem continues, contact IBM customer support.

BTACE0050E Messaging Service is not running and cannot be used to subscribe or publish events.

**Explanation:** The Messaging Service, which is used by all other services to subscribe to and publish events, is not running. Services cannot subscribe to or publish events.
Administrator Explanation: A proxy to the Messaging Service could not be obtained.

Administrator Response: Review the message log to determine why the proxy could not be obtained. If this problem persists, enable ServiceManager tracing to assist in determining why the proxy could not be obtained.

BTACE0509E The proxy to the Messaging Service may not be valid. Cannot publish or subscribe to events.

Explanation: The proxy to the Messaging Service may not be valid. The Messaging Service may not be running.

Administrator Response: Make sure that the Messaging Service is up and running.

BTACE0510E Unable to create topic topic name.

Explanation: makeTopic tries to construct the full class name of the topic by prefixing the superclass name recursively until the root of the class hierarchy is reached. An error occurred in makeTopic which prevented the full topic name to be constructed.

Administrator Response: Enable the messaging middleware trace (san.tesTrcLogger) and view the trace logs to determine why makeTopic failed.

BTACE0511E Unable to create a publisher for topic topic name.

Explanation: An error occurred while creating a publisher for the specified topic.

Administrator Response: Enable the messaging middleware trace (san.tesTrcLogger) and view the trace logs to determine why the createPublisher method failed.

BTACE0512E Unable to create a subscriber for topic topic name.

Explanation: An error occurred while creating a subscriber for the specified topic.

Administrator Response: Enable the messaging middleware trace (san.tesTrcLogger) and view the trace logs to determine why the createSubscriber method failed.

BTACE0513E Unable to create a message.

Explanation: An error occurred while creating a message.

Administrator Response: Enable the messaging middleware trace (san.tesTrcLogger) and view the trace logs to determine why the createMessage method failed.

BTACE0514E Service service name failed to subscribe to topic topic name.

Explanation: An error occurred when the service tried to subscribe to the topic.

Administrator Response: Enable the messaging middleware trace (san.tesTrcLogger) and view the trace logs to determine why subscribe failed.

BTACE0515E Publish failed for topic topic name.

Explanation: An error occurred when the topic was being published.

Administrator Response: Enable the messaging middleware trace (san.tesTrcLogger) and view the trace logs to determine why publish failed.

BTACE3141E In order to specify a Tivoli Enterprise Console server, you must also specify the port number of the Tivoli Enterprise Console server.

Explanation: The port number of the Tivoli Enterprise Console server is required in order to send events to the Tivoli Enterprise Console server you specified.

Administrator Response: If you do not know the port number of the Tivoli Enterprise Console server, contact the administrator responsible for that server.

BTACE3142E The SNMP address you specified is incorrect. Please specify a fully qualified SNMP server address (for example: 168.192.1.1 or SNMPserver.example.your.company).

Explanation: The SNMP server address you specify must be a fully qualified IP address. If the address of this SNMP server to direct events to is not known, contact the administrator responsible for that server.

BTACE3143E The Tivoli Enterprise Console port you specified is incorrect. Please specify a number between 0 and 36655.

Explanation: The Tivoli Enterprise Console port you specify must be an integer between 0 and 36655. If you do not know the port of the Tivoli Enterprise Console, contact the Tivoli Enterprise Console administrator.

BTACE3148E This SNMP address has already been added. No action will be taken.

Explanation: The SNMP address specified has already been added. No action will be taken.
**BTACE3149E** This SNMP address has already been added. No action will be taken.

*Explanation:* The SNMP address specified has already been added. No action will be taken.

---

**BTACE3150E** No IP address was specified for the SNMP event destination entry. No action will be taken.

*Explanation:* An IP address has not been specified for the SNMP event destination entry. This is a required input.

*Administrator Response:* Enter the IP address and click the OK button. If you do not wish to specify this information, click the CANCEL button.

---

**BTACE3151E** You must enter a proper IP Address.

*Explanation:* An IP address has not been specified for the SNMP event destination entry. This is a required input.

*Administrator Response:* Enter the IP address and click the OK button. If you do not wish to specify this information, click the CANCEL button.

---

## BTACL messages

**BTACL0090I** IBM Tivoli Storage Area Network Manager (License Service) initialized successfully.

*Explanation:* The SAN License Service initialized successfully.

**BTACL0091I** The SAN License has been successfully updated.

*Explanation:* The license was updated with the license string.

**BTACL0092E** The nodelock file was not created.

*Explanation:* The missing nodelock license file could not be created.

*Administrator Response:* IBM Tivoli Storage Area Network Manager may not be installed correctly, or a file may be missing. Contact IBM customer support for assistance.

**BTACL0093I** The SAN license state = [0].

*Explanation:* The SAN license state is displayed. The license states are:

- 1 - Full License
- 2 - Try and Buy License
- 3 - Expired Try and Buy License
- 4 - Invalid License
- 5 - Entitlement License

---

**BTACE3152E** IBM Tivoli Enterprise Console server location must be entered.

*Explanation:* The IBM Tivoli Enterprise Console server location has not been entered into the appropriate field. This is a required input.

*Administrator Response:* Enter the IBM Tivoli Enterprise Console server location and click the OK button. If you do not wish to specify this information, click the CANCEL button.

---

**BTACE3153E** An error occurred while retrieving the Tivoli Enterprise Console info.

*Explanation:* An error occurred while attempting to retrieve the IBM Tivoli Enterprise Console information. This might be caused by a network error.

*Administrator Response:* Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTACL0094I** [0] day(s) left on the Try and Buy license.

*Explanation:* Displays the number of days left on the Try and Buy license.

---

**BTACL0095E** An error occurred while executing the License Use Management Service.

*Explanation:* An error occurred while calling the luminfo.exe program. This program gets the license information.

*System Action:* A license could not be granted for IBM Tivoli Storage Area Network Manager.

*Administrator Response:* IBM Tivoli Storage Area Network Manager may not be installed correctly or a file may be missing. Contact IBM customer support for assistance.

---

**BTACL0096E** An error occurred while updating the properties file.

*Explanation:* An error occurred while updating the properties for the host.

*System Action:* An updated license could not be granted for IBM Tivoli Storage Area Network Manager.

*Administrator Response:* IBM Tivoli Storage Area Network Manager may not be installed correctly, or a file may be missing. Contact IBM customer support for assistance.
BTACL0097E An error occurred while setting the license.
Explanation: An error occurred while adding the license key to the license file.
Administrator Response: Contact IBM customer support for assistance.

BTACL0098E Invalid license key.
Explanation: The specified license key is not valid.
System Action: A license could not be granted for IBM Tivoli Storage Area Network Manager.
Administrator Response: IBM Tivoli Storage Area Network Manager may not be installed correctly, or a file may be missing. Contact IBM customer support for assistance.

BTACL0099E An error occurred while publishing a license change event.
Explanation: The specified license key is not valid.
System Action: An updated license could not be granted for IBM Tivoli Storage Area Network Manager.

BTACM messages

BTACM0000E An error occurred while initializing the Change Monitor.
Explanation: An error occurred while initializing the Change Monitor.
Administrator Response: Stop the manager, then restart the manager.

BTACM0001E An error occurred while updating the status within the Change Monitor.
Explanation: An error occurred while attempting to read the current status into the Change Monitor.

BTACS messages

BTACS0001I IBM Tivoli Storage Area Network Manager command line interface initialized successfully.
Explanation: IBM Tivoli Storage Area Network Manager command line interface has initialized successfully.

BTACS0002I The command line interface is binding to the service.
Explanation: The IBM Tivoli Storage Area Network Manager command line interface is binding to the service specified on the command line.

BTACS0003E Required parameters are not present.
Explanation: The host:port service method [params] required parameters were not entered.
System Action: The program stops execution.
Administrator Response: Try the command again using the correct syntax for the -url argument.
BTACS0003I The bind was successful.
Explanation: IBM Tivoli Storage Area Network Manager command line interface has bound to the service specified on the command line.

BTACS0004E An exception occurred while invoking the service: method name.
Explanation: An exception was received by the IBM Tivoli Storage Area Network Manager command line interface while attempting to start the specified service.
System Action: The IBM Tivoli Storage Area Network Manager command line interface terminates.
Administrator Response: Refer to the exception for more information. Contact IBM customer support if the problem continues.

BTACS0004I Started service [0].
Explanation: Service Manager successfully started the specified service.

BTACS0005E Could not deserialize exception: [0].
Explanation: An exception was encountered when Service Manager was deserializing an object.
Administrator Response: Refer to the exception for more information. Contact IBM customer support.

BTACS0005I Deployed service [0]: class=[1], scope=[2], autostart=[3], static=[4], order=[5].
Explanation: Service Manager encountered an internal problem while managing a service.
Administrator Response: Shut down and restart the program.

BTACS0006E Fault detail: [0].
Explanation: An error was encountered when Service Manager was deserializing an object.
Administrator Response: If the problem persists, shut down and restart IBM Tivoli Storage Area Network Manager. If this does not correct the error, the problem is probably in network communications.

BTACS0006I Undeploying service: [0]
Explanation: Service Manager is undeploying the specified service.

BTACS0007E Unrecognized command for service: [0].
Explanation: Service Manager encountered an internal problem while managing a service.
Administrator Response: Shut down and restart the program.

BTACS0007I Undeployed service: [0]
Explanation: Service Manager successfully undeployed the specified service.

BTACS0008E Error undeploying service [0]: [1]
Explanation: Service Manager encountered a problem while attempting to undeploy the specified service.
Administrator Response: Contact IBM customer support.

BTACS0008I Starting service [0] (timeout [1] seconds)
Explanation: The Service Manager started the specified service.

BTACS0009E Error starting the [0] service.
Explanation: Service Manager encountered an error while starting the specified service.
Administrator Response: Shut down and restart the program. If the problem continues, contact IBM customer support.

BTACS0009I The service [0] was stopped.
Explanation: The Service Manager stopped the specified service.

BTACS0010E An error was encountered while stopping service [0].
Explanation: The Service Manager encountered an error while stopping the specified service.
Administrator Response: Contact IBM customer support.

BTACS0010I Stopping service [0] (timeout [1] seconds).
Explanation: The Service Manager is stopping the specified service.

BTACS0011E Service [0] not deployed
Explanation: The startup or shutdown method was called on a Service that has not been deployed.
Administrator Response: Contact IBM customer support.
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Explanation</th>
<th>Administrator Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTACS0011I</td>
<td>Interrupting monitor thread and waiting for it to exit.</td>
<td>The Service Manager is shutting down - stopping the monitor thread.</td>
<td></td>
</tr>
<tr>
<td>BTACS0012E</td>
<td>Exception was received while stopping service {0}: {1}.</td>
<td>The Service Manager received an exception while stopping the specified service.</td>
<td>Contact IBM customer support.</td>
</tr>
<tr>
<td>BTACS0013E</td>
<td>Service {0} did not start, interrupting the startup thread.</td>
<td>The Service Manager timed out while starting the specified service.</td>
<td>Change the service.timeout setting in the setup.properties file and restart the program.</td>
</tr>
<tr>
<td>BTACS0014E</td>
<td>An undeclared exception was encountered: {0}.</td>
<td>An undeclared exception was encountered by Service Manager.</td>
<td>Refer to the exception for more information. Contact IBM customer support if the problem continues.</td>
</tr>
<tr>
<td>BTACS0014I</td>
<td>Service {0} has {1}.</td>
<td>The Service Manager is monitoring services.</td>
<td></td>
</tr>
<tr>
<td>BTACS0015E</td>
<td>Caught exception: {0}.</td>
<td>An exception was received by the command line interface.</td>
<td>Refer to the exception for more information. Contact IBM customer support if the problem continues.</td>
</tr>
<tr>
<td>BTACS0015I</td>
<td>The Service Manager monitor process is exiting.</td>
<td>The Service Manager monitor process is exiting.</td>
<td></td>
</tr>
<tr>
<td>BTACS0016E</td>
<td>Service {0} is not available.</td>
<td>The requested service is not currently available.</td>
<td>Contact IBM customer support.</td>
</tr>
<tr>
<td>BTACS0016I</td>
<td>There are no services to autostart.</td>
<td>No services are configured for Service Manager to start.</td>
<td>You can configure services to start automatically. For more information, see the Planning and Installation Guide.</td>
</tr>
<tr>
<td>BTACS0017E</td>
<td>Service {0} did not stop, interrupting the startup thread.</td>
<td>The Service Manager timed out while stopping the specified service.</td>
<td>Change the service.timeout setting in the setup.properties file and restart the program.</td>
</tr>
<tr>
<td>BTACS0017I</td>
<td>All autostart services have started.</td>
<td>All services configured to autostart have been started.</td>
<td></td>
</tr>
<tr>
<td>BTACS0018E</td>
<td>A problem was encountered while getting class definition: {0}.</td>
<td>The Service Manager encountered a problem while getting interface details from the JVM.</td>
<td>Contact IBM customer support.</td>
</tr>
<tr>
<td>BTACS0018I</td>
<td>All services are shutting down.</td>
<td>Service Manager is shutting down all services.</td>
<td></td>
</tr>
<tr>
<td>BTACS0019E</td>
<td>An interface {0} in service {1} is being ignored.</td>
<td>The Service Manager is ignoring an interface because it could not get details for it from the JVM.</td>
<td>Contact IBM customer support.</td>
</tr>
</tbody>
</table>
All services have been shut down
Explanation: Service Manager has shut down all services.

Error starting service {0}: {1}.
Explanation: The Service Manager received an exception while stopping the specified service.
Administrator Response: Contact IBM customer support.

Deleted file {0}
Explanation: Service Manager deleted the deployed services file.

Exception getting status from service {0}: {1}.
Explanation: The Service Manager received an exception while getting status for the specified service.
Administrator Response: Contact IBM customer support.

Unable to delete file {0}
Explanation: Service Manager was unable to delete the specified file.

Starting autostart services.
Explanation: Service Manager is starting all services that were configured to start automatically.

An error occurred while starting the {0} service.
Explanation: Service Manager encountered an error while starting the specified service.
Administrator Response: Shut down and restart the program. If the problem continues, contact IBM customer support.

The properties from file file name were successfully read.
Explanation: Startup properties were successfully loaded.

An error occurred while reading properties from file file name.
Explanation: There was an error reading from the specified file. This file contains configuration data and is required for the product to initialize.

System Action: The service fails to initialize. The product can not continue processing.
Administrator Response: Verify that the specified file exists and is not corrupt.
  • If the file does not exist, restore from a backup copy or reinstall the product.
  • If the file exists, verify that it does not have unreadable characters. The file should contain only standard English text characters, integers and local machine names.

If the problem continues, contact IBM customer support.

Login failed: Unknown username or bad password.
Explanation: The command line was unable to authenticate the specified user with the host operating system.
Administrator Response: Verify the username specified exists in the host operating system and the password is still valid. If this is a window machine, confirm that the user that the SANM service is running under has "Act as part of the operating system" authority. If this is running under WebSphere®, make sure that WebSphere security is enabled.

Command failed: Failed to connect.
Explanation: Failed to connect to application.
Administrator Response: Failed to make a network connection to the application. Confirm that the application is running.

Command failed.
Explanation: The command has failed.
Administrator Response: If the problem continues, contact IBM customer support.

Failed to connect to host name.
Explanation: Failed to connect to the remote machine.
Administrator Response: If the problem continues, contact IBM customer support.

Failed to authenticate host host name.
Explanation: Failed to authenticate the remote client.
Administrator Response: Reset the host authentication password on the host. If the problem continues, contact IBM customer support.

BTADE messages
BTADE1700E  Unable to start Discover Engine service.

Explanation: An exception occurred while starting up one or more components.

Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTADE1701E  Unable to shut down Discover Engine Service smoothly.

Explanation: An exception occurred while shutting down one or more components.

Administrator Response: No further action needed since the service will be forced to shut down.

BTADE1702I  A job request from scanner ID scanner ID was processed in milliseconds ms.

Explanation: A request to process the XML file from the given scanner ID was successfully processed.

BTADE1703I  The rule property file was not found.

Explanation: The rule property file was not found.

BTADE1704I  Processing response from scanner ID scanner ID. The response return code is return code.

Explanation: Starting to process a request from the specified scanner ID with the specified return code.

BTADE1705I  The clear changes function has started.

Explanation: The clear changes function has started to remove objects in the 'missing' state from the database.

BTADE1706I  Clear changes function was processed in milliseconds.

Explanation: The clear changes function finished successfully and objects in the 'missing' state were removed from the database.

BTADE1707E  Unable to publish the event event name.

Explanation: The attempt to publish the specified event failed. There may be a problem with the message server.

Administrator Response: Check the status of the message server for this manager.

BTADE1708E  Unable to close publisher publisher name.

Explanation: An exception was encountered when attempting to close a Tivoli Event Services Factory object. This might indicate a problem with the Message Server.

Administrator Response: Check the status of the Message Server.

BTADE1709I  The Discover Engine service has started successfully.

Explanation: The Discover Engine service has started successfully.

BTADE1710E  Unable to open and parse the rules file file name.

Explanation: The input rules file has problem.

Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTADE1711E  Parameter object_name was not contained in the given SAN-managed object.

Explanation: The input object has serious problem.

Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTADE1712E  Unable to get the type field from the object moid.

Explanation: The input object has serious problem.

Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTADE1713I  The rules file does not contain a rule for device type type name.

Explanation: The specified device type is not supported.

BTADE1714I  A default rule was not found for object moid.

Explanation: No default rule was found for the specified object.
The Discover Engine service was shut down successfully.

Explanation: The Discover Engine service was shut down successfully.

Parsing has started for the XML file sent by scanner ID scanner ID.

Explanation: Parsing of XML data sent by the specified scanner ID has started.

Processing of missing devices for scanner ID scanner ID has started.

Explanation: Processing of missing devices was started for the specified scanner ID.

A new host-logical unit (LUN) association has been detected, or a previously reported host-LUN association no longer exists.

Explanation: Discover processing has detected a new host-logical unit relationship, or a previously reported host-logical unit relationship no longer exists.

One or more attributes for an object have been changed.

Explanation: Discover processing has determined that one or more attributes have changed for an object in the database.

Processing has started for the missing devices for scanner ID scanner ID.

Explanation: Processing of missing devices has started for the given scanner ID.

A new SAN-managed object has been added to the database.

Explanation: A new object has been discovered and added to the database.

A previously unreported relationship has been detected.

Explanation: A new relationship object has been discovered and added to the database.

A previously detected object is no longer being detected by the discover process.

Explanation: The state of the object has been set to ‘missing’ to indicate that the object is no longer being detected by the discover process.

A previously detected relationship is no longer being detected.

Explanation: The state of the relationship object has been set to ‘missing’ to indicate that the object is no longer being detected by the discover process.

Missing device processing for scanner ID scanner ID finished successfully.

Explanation: Processing of missing devices has finished for the given scanner ID.

Parsing the XML file sent by scanner ID scanner ID finished successfully.

Explanation: Parsing of XML data sent by the specified scanner ID finished successfully.

History information has been removed from the database.

Explanation: The database has been updated to remove objects marked as ‘missing’.

The database has been modified as a result of processing a scan.

Explanation: The database has been updated with the results of processing a scan.

An IBM Tivoli Storage Area Manager Discover Engine service has completed startup.

Explanation: The specified IBM Tivoli Storage Area Network Manager service has started successfully.

An IBM Tivoli Storage Area Manager Discover Engine service is shutting down.

Explanation: An IBM Tivoli Storage Area Network Manager service is shutting down.

A previously missing object has been detected as new again.

Explanation: A new object has been discovered and added to the database.

A previously missing relationship has been detected as new again.

Explanation: A new relationship object has been discovered and added to the database.
The Discover Engine Service parses the XML data that agents sent and persists the data in the database.

Explanation: This is a description of the SAN Manager Service component of IBM Tivoli Storage Area Network Manager.

Discover Engine encountered an internal processing error while attempting to process scan results from scanner ID scanner ID.

Explanation: An error occurred while attempting to process scan results from the given scanner ID.

Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

Retry transaction: object type object update or create.

Explanation: An error occurred while attempting to update or create the specified object, and a retry database transaction is started.

Problem processing scanner bad return code.

Explanation: Scanner has bad return code.

Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

Processing processMissing.

Explanation: Discover Engine is executing processMissing logic.

Database could not be opened by Discover Engine.

Explanation: Discover Engine has a problem accessing the database.

Administrator Response: Capture the exception stack data from the message log and contact customer IBM customer support.

A smartEvent did not provide some event information.

Explanation: The event information returned by the smartEvent is missing certain information, such as the EventDescription, ActionTarget, and ActionType.

The SanEventProcessor service failed to process events.

Explanation: The SanEventProcessor service failed to process events.

The EventCorrelator was unable to parse the Event XML. The EventCorrelator will continue processing by creating a generic SmartEvent for the event received.

Explanation: The EventCorrelator generates SmartEvents from the Event XML received from outband agents or managed hosts. Since the Event XML cannot be parsed, a generic SmartEvent will be generated by the EventCorrelator for the event that was received.

A runtime exception occurred in the SanEventProcessor service.

Explanation: The SanEventProcessor service encountered a runtime exception and has shut down.

The EventCorrelator generates SmartEvents from the Event XML received from outband agents or managed hosts. Since the Event XML cannot be parsed, a generic SmartEvent will be generated by the EventCorrelator for the event that was received.

Successfully read EDFI properties file: file name.

Explanation: An EDFI service is processing the properties from the file given. See Users Guide for description of properties file.

Error opening file: file name.

Explanation: Unable to open the file or the file is corrupt.

Administrator Response: Verify the file exists and has proper permissions. If the file does not exist, check the edfi.properties file to verify the correct file is listed there. If this file was recently updated it may be corrupt, try to update it again. If the problem persists or you can not resolve the problem, contact IBM Customer Service.

The Predictive Failure Analysis® Service has started successfully.

Explanation: The PFA Service started successfully.
BTAFI1001I  The Predictive Failure Analysis Service shutdown successfully.
Explanation: The Predictive Failure Analysis Service stopped successfully.

BTAFI1002I  The PFA Service is now processing counter data.
Explanation: The PFA Service is now operating data collected by the statistics scanner.

BTAFI1003I  The PFA Service has finished processing counter data.
Explanation: The PFA Service has finished processing data from the statistics scanner.

BTAFI1004I  PFA Rules Engine fired rule rule for device port wnn on counter counter .
Explanation: The PFA Service met the criteria for an indication on the specified port. This will be used in determining if this is a potentially faulty device.

BTAFI2000I  The Fault Isolation Service has started successfully.
Explanation: The Fault Isolation Service has started successfully.

BTAFI2001I  The Fault Isolation Service has stopped.
Explanation: The Fault Isolation Service has stopped.

BTAFI2002I  The Fault Isolation indication processing has started.
Explanation: Processing of indications from the PFA Service has started.

BTAFI2003E  The Fault Isolation service has failed to start.
Explanation: An exception occurred while starting up one or more components.
Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTAFI2004E  The Fault Isolation indication processing has failed to start.
Explanation: An exception occurred while starting up one or more components.
Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTAFI2005I  The Fault Isolation indication processing has finished.
Explanation: Processing of indications from the PFA Service has finished.

BTAFI2006E  An error has occurred in the Fault Isolation service.
Explanation: An exception occurred while processing indications.
Administrator Response: Capture the exception stack data from the message log and contact IBM customer support.

BTAFI2030E  No FI Rules file was found, or initial problem while loading the file.
Explanation: The FI Rules file was not found or it was corrupt. There will be no indication processing or notification until this problem is resolved.
Administrator Response: Contact IBM customer support for the correct FI Rules file.

BTAFI2031I  The device device id has been identified as a potentially failing device.
Explanation: The device has met the criteria as a potentially faulty device.

BTAFI3001I  EDFI Startup Completed Successfully.
Explanation: No additional information is available for this message.

BTAFI3002I  EDFI Shutdown Completed Successfully.
Explanation: No additional information is available for this message.

BTAFI3003I  A Notification has been set on the Managed Device.
Explanation: No additional information is available for this message.

BTAFI3004I  A Notification has been cleared on the Managed Device.
Explanation: No additional information is available for this message.

BTAFI3005I  EDFI Service.
Explanation: No additional information is available for this message.
**BTAHM messages**

**BTAHM2501E** The service name Service failed to start due to condition.

*Explanation:* An error condition prevented the service from starting.

*System Action:* The service is not started.

*Administrator Response:* Correct the condition that prevented the service from starting.

**BTAHM2502E** Agent agent name has been marked inactive.

*Explanation:* The specified agent is not visible to the manager.

*System Action:* The operation is not completed. No retry is attempted.

*Administrator Response:* Check to make sure that the SANAgentHostQuery service is up and running on the Managed Host.

**BTAHM2502I** The agent returned an invalid name.

*Explanation:* An agent name is not in the proper format, according to java.net.InetAddress.

*System Action:* This will probably not cause problems.

*Administrator Response:* Make sure that the managed host name has a valid IP address and host name.

**BTAHM2522E** agent name is not a known agent.

*Explanation:* The specified agent is not known to the host manager.

*System Action:* The operation is not completed. No retry is attempted.

*Administrator Response:* Run a discovery by issuing a Poll Now command and then retry the operation.

**BTAHM2524E** The agent returned an invalid port number.

*Explanation:* The port number was non-numeric, or was not in the range 0-65535.

**BTAHM2525E** Agent agent name cannot be removed because it is active.

*Explanation:* The agent has not been removed.

*Administrator Response:* Remove the agent from the IP network and wait until the Host Manager detects that the agent is gone. The host manager polling interval is an adjustable property.

**BTAHM2527E** Unexpected error Java error.

*Explanation:* An internal programming error caused an error.

*System Action:* The operation is not completed. No retry is attempted.

*Administrator Response:* Save the error message and error log and contact your service representative for assistance in resolving the error.

**BTAHM2528I** Agent host name has been marked active.

*Explanation:* The specified agent is visible to the host manager.

*System Action:* The system continues with normal operations.

**BTAHM2551I** An inactive agent agent name has been removed.

*Explanation:* The inactive agent has been removed.

*System Action:* The system continues with normal operations.

**BTAHM2580I** The service name service started.

*Explanation:* The host manager started.

*System Action:* The host manager is started.
BTAHM2581I  The service name service is shut down.
Explanation:  The host manager is shut down.
System Action:  The host manager is shut down.

**BTAHQ messages**

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Explanation</th>
<th>System Action</th>
<th>Administrator Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTAHQ2937E</td>
<td>The reason HostQuery_constructor HostQuery.</td>
<td>There was a HostQuery_constructor error in HostQuery.</td>
<td></td>
<td>Check the Manager Host to make sure HostManager is running.</td>
</tr>
<tr>
<td>BTAHQ2938E</td>
<td>The reason Authentication_exception HostQuery.</td>
<td>An exception occurred during authenticationContext initialization and authentication login.</td>
<td></td>
<td>Generate the GUID on the system by reinstalling the agent or by command.</td>
</tr>
<tr>
<td>BTAHQ2939I</td>
<td>The service name Service started.</td>
<td>The HostQuery Service started successfully.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BTAHQ2940I</td>
<td>The service name Service shutdown.</td>
<td>The HostQuery Service shut down successfully.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BTAHQ2941E</td>
<td>Failed to invoke method: method name on HostManager.</td>
<td>The heartbeat method failed on HostManager Service.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BTAHQ2942E</td>
<td>Heartbeat started, method: method name on HostManager.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BTAHQ2943E</td>
<td>A GUID read failed during startup, the SANAgentHostQuery Service cannot be started.</td>
<td>A GUID value could not be retrieved by the SANAgentHostQuery Service.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BTAHQ2944E</td>
<td>Failed to retrieve HostName during startup. SANAgentHostQuery Service cannot be started.</td>
<td>Host Name could not be retrieved by SANAgentHostQuery Service.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BTAIC messages**

<table>
<thead>
<tr>
<th>Code</th>
<th>Message</th>
<th>Explanation</th>
<th>System Action</th>
<th>Administrator Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>BTAIC1200E</td>
<td>The InbandChangeAgent cannot contact the EventCorrelator.</td>
<td>An error condition prevented the InbandChangeAgent from contacting the EventCorrelator. One possible cause is that the EventCorrelator Service is not active.</td>
<td></td>
<td>Verify that all IBM Tivoli Storage Area Network Manager services are running.</td>
</tr>
<tr>
<td>BTAIC1201E</td>
<td>An error occurred while reading the InbandEvents file.</td>
<td>IBM Tivoli Storage Area Network Manager encountered an error while reading the InbandEvents file.</td>
<td></td>
<td>Contact IBM customer support if the problem persists.</td>
</tr>
<tr>
<td>BTAIC1202E</td>
<td>The InbandChangeAgent thread has been interrupted.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explanation:</td>
<td>An error condition interrupted the InbandChangeAgent thread. This might be caused by the InbandChangeAgent service shutting down.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Administrator Response:</td>
<td>Verify that all IBM Tivoli Storage Area Network Manager services are running. Restart the InbandChangeAgent service if necessary.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAIC1203E</th>
<th>The InbandChangeAgent failed to execute the Event.exe command.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>An error condition prevented the InbandChangeAgent executing the Event.exe command.</td>
</tr>
<tr>
<td>Administrator Response:</td>
<td>Verify that all IBM Tivoli Storage Area Network Manager services are running. Restart any services that are not running.</td>
</tr>
</tbody>
</table>

### BTAMS messages

<table>
<thead>
<tr>
<th>BTAMS0500I</th>
<th>IBM Tivoli Storage Area Network Manager MessagingService started successfully.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>The Messaging Service has started successfully.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAMS0501I</th>
<th>The Messaging Service has shutdown.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>The Messaging Service has been shutdown.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAMS0502I</th>
<th>Service service name subscribed to topic topic name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>The specified service has subscribed to events published to the specified topic.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAMS0503I</th>
<th>Event published to topic topic name.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>An event has been published to the specified topic.</td>
</tr>
</tbody>
</table>

### BTAOC messages

<table>
<thead>
<tr>
<th>BTAOC1600E</th>
<th>An SnmpChangeAgent event does not match the ChangeAgent XML format.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>The event data from the SnmpChangeAgent service does not match the ChangeAgent XML format. This might be caused by a problem with the XML template file used by this service.</td>
</tr>
<tr>
<td>Administrator Response:</td>
<td>Verify the Outband event message format with the ChangeAgent.xml file.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAOC16012E</th>
<th>The SnmpTrap filter cannot filter the trap.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>SnmpTrap filter is unable to filter the trap received from the SNMP server.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAOC1601E</th>
<th>The SnmpChangeAgent was unable to post Outband events.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>An error prevented the SnmpChangeAgent from posting the outbound event through the EventCorrelator service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAOC1602E</th>
<th>The SnmpChangeAgent was unable to compose an Outband event message.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>An error prevented the SnmpChangeAgent from posting the outbound event through the EventCorrelator service.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTAOC1603E</th>
<th>The SnmpChangeAgent failed to create a query message.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Explanation:</td>
<td>This might have been caused by an unexpected data format received from the target switch.</td>
</tr>
<tr>
<td>Administrator Response:</td>
<td>Go to the IBM software support Web site and verify that the target switch is supported by IBM Tivoli Storage Area Network Manager: <a href="http://www-3.ibm.com/software/sysmgmt/products/support/">http://www-3.ibm.com/software/sysmgmt/products/support/</a></td>
</tr>
</tbody>
</table>
The SnmpChangeAgent is unable to get the proxy of the EventCorrelator service.

Explanation: The EventCorrelator service might not be running.

Administrator Response: Verify that the EventCorrelator service is active.

The SnmpChangeAgent failed to get the proxy of the EventCorrelatorFactory service.

Explanation: The EventCorrelatorFactory service might not be running.

Administrator Response: Verify that the EventCorrelatorFactory service is active.

The SnmpChangeAgent failed to get the proxy of the EventCorrelatorFactory service.

Explanation: The EventCorrelatorFactory service might not be running.

Administrator Response: Verify that the EventCorrelatorFactory service is active.

The SnmpChangeAgent failed at its constructor.

Explanation: The SnmpChangeAgent service failed at its constructor.

The SnmpChangeAgent cannot open a socket to receive an SNMP trap.

Explanation: The SnmpChangeAgent was unable to open a socket to receive an SNMP trap.

The EventCorrelatorFactory service is not ready.

Explanation: The EventCorrelatorFactory service might be down or in the process of becoming active.

The SnmpChangeAgent was unable to post events.

Explanation: The SnmpChangeAgent was unable to post events.

The SnmpChangeAgent cannot create a query from the SNMP trap information.

Explanation: The SNMP trap message is in a format that the SnmpChangeAgent cannot use.

The SnmpChangeAgent cannot get the EventCorrelatorFactory service.

Explanation: The SnmpChangeAgent is unable to communicate with the EventCorrelatorFactory service.

The SnmpChangeAgent cannot find SnmpChangeEvent.xml or ChangeAgent.properties file.

Explanation: The file is missing.

The SnmpChangeEvent.xml template is not valid.

Explanation: IBM Tivoli Storage Area Network Manager uses this template file to pass information to the SnmpChangeAgent service. This file might be damaged or corrupted.

Administrator Response: Correct the condition that prevented the loading of the XML template.

The SnmpChangeAgent failed to receive SNMP traps.

Explanation: The SnmpChangeAgent is unable to receive SNMP traps. This might be caused by network problems.

Administrator Response: Verify that the network is running properly.

The SnmpChangeAgent failed to locate the ChangeAgent.properties and SnmpChangeEvent.xml files.

Explanation: The ChangeAgent.properties and SnmpChangeEvent.xml files are missing.

The SnmpChangeAgent failed to set the property file.

Explanation: The SnmpChangeAgent was unable to set the property file.
BTAQE messages

BTAQE1100E  Query Engine Event Generator can not start.

Explanation: The SAN Query Engine Event Generator was unable to start.

Administrator Response: Get the SANQueryEngine service trace information from the trace log, and contact IBM customer support.

BTAQE1101E  Unable to open the database.

Explanation: IBM Tivoli Storage Area Network Manager was unable to open the database. There might be a problem with the database or the network connections to the database server.

Administrator Response: Make sure that the database is online and working properly and is connected to the network. Stop and restart the manager, which will allow the database to synchronize its data.

BTAQE1102E  Unable to close the database.

Explanation: IBM Tivoli Storage Area Network Manager was unable to close the database. There might be a problem with the database or the network connections to the database server.

Administrator Response: Make sure that the database is online and working properly and is connected to the network. Stop and restart the manager, which will allow the database to synchronize its data.

BTAQE1104E  The Query Engine check write authority failed.

Explanation: The IBM Tivoli Storage Area Network Manager query engine does not have the appropriate authority. There might be a problem with the product license file or with the license server, or the current license might have expired.

System Action: No SNMP Agents will be added to the manager.

Administrator Response: Make sure the IBM Tivoli Storage Area Network Manager license has not expired. Contact IBM customer support to get a new license, if necessary.

BTAQE1105E  Check for QueryEngine Authentication failed.

Explanation: During a routine authorization check, IBM Tivoli Storage Area Network Manager encountered an error. There might be a problem with the license file or the license server, or the current license might have expired.

BTAQE1106E  The SANQueryEngine thread has been interrupted.

Explanation: There is a problem with the SANQueryEngine service. This might be caused by the service shutting down.

Administrator Response: Make sure the SANQueryEngine service is active. If it is not running, you may need to stop and restart the manager to bring the service up again.

BTAQE1107E  InbandScanHandler failed to start

InbandScanner scanner name on managed host target.

Explanation: The InbandScanner scans managed hosts for device information and displays that information in the network topology display. The InbandScanner is necessary for providing accurate information about your SAN.

Administrator Response: Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

BTAQE1108E  InbandScanHandler failed to get callback information for InbandScanner

scanner name on managed host target.

Explanation: The InbandScanHandler service was unable to receive device information from the scanner. This can cause the network topology displays to show inaccurate SAN data. Other services will be affected as well.

Administrator Response: Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

BTAQE1109E  An error occurred while attempting to save the IP target to the database.

Explanation: There might be a problem with the database or with the network connections to the database.

Administrator Response: Make sure the database is running and is properly connected to the network. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.
**BTAQE1110E** An error occurred while attempting to delete an IP target from database.

**Explanation:** There might be a problem with the database or with the network connections to the database.

**Administrator Response:** Make sure the database is running and is properly connected to the network. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1111E** An error occurred while querying the IP target information from the database.

**Explanation:** There might be a problem with the database or with the network connections to the database.

**Administrator Response:** Make sure the database is running and is properly connected to the network. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1112E** During an outband scan, the scanner `scanner name` was unable to identify the target host `target name`.

**Explanation:** The target host might have an invalid IP address.

**Administrator Response:** Verify the IP address of the target managed host. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1113E** Unable to invoke an Outband scan `scanner name` on target `target name`.

**Explanation:** IBM Tivoli Storage Area Network Manager was unable to start an outband scan. There might be problems with the SAN connectivity.

**Administrator Response:** Make sure the SAN is working properly. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1115E** The outband scanner `scanner name` did not return the SAN ID on target `target name`.

**Explanation:** The switch vendor may not support FE MIB or certain fields in the FC MGMT MIB.

**Administrator Response:** Check the Tivoli Support Web site to see if the switch is supported by IBM Tivoli Storage Area Network Manager. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1116E** Database errors occurred while performing queries on Tasks.

**Explanation:** There might be a problem with the database or the network connections to the database.

**Administrator Response:** Make sure the database is running and is properly connected to the network.

**BTAQE1118E** Errors occurred while resolving InterconnectElement and Port relationship.

**Explanation:** Some of the data returned from the scanner could not be resolved.

**Administrator Response:** Get the SANQueryEngine service trace information from the trace log, and contact IBM customer support.

**BTAQE1119E** Errors in Topology XML generator.

**Explanation:** Some of the data generated by the scanner appears to have errors.

**Administrator Response:** Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1120E** Errors in creating an entity.

**Explanation:** Errors occurred while attempting to create an entity from the results of a scan.

**Administrator Response:** Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1121E** Invalid target host IP address.

**Explanation:** The IP address that was returned from the target host appears to be invalid.

**Administrator Response:** Verify the IP address of the target host. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

**BTAQE1122E** Failed to get the SNMP Service proxy.

**Explanation:** The scanner was unable to get the SNMP Service proxy. This might be caused by network problems.

**Administrator Response:** Make sure the network is running properly. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.
BTAQE1123E  Unable to close the event publisher.
Explanation: IBM Tivoli Storage Area Network Manager was unable to close the event publisher.
Administrator Response: Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

BTAQE1124E  Unable to compress scanner result due to IOException: exception.
Explanation: An IOException occurred in the process of compressing the scanner result.

BTAQE1125E  Unable to uncompress the scanner result due to IOException: exception.
Explanation: An IOException occurred in the process of uncompressing the scanner result.

BTAQE1126I  An unidentified port was removed from the scan data.
Explanation: The outband AdvancedTopologyScanner scan data contained a port entity which did not have a port World Wide Name (WWN), or it had a port WWN of 0000000000000000. The port cannot be identified.
Administrator Response: This problem can be caused by a switch port being improperly configured. Check the switch port configurations. For more information on the unidentified port, get the SANQueryEngine service trace information from the trace log.

BTAQE1127E  An outband scanner failed to capture the scan data.
Explanation: An error condition prevented the scanner from processing the outband scan data.
System Action: Processing continues, but only partial data or no data is returned.
Administrator Response: If the problem continues, contact IBM customer support.

BTAQE1128E  An outband scanner failed to save the scan data for benchmark comparison.
Explanation: An outband scanner encountered an error while saving the scan data as a benchmark file. This file is created when the scanner is run for the first time. When the scanner is invoked again, the scan data is compared against the saved benchmark data from the previous scan for optimization processing. Benchmark comparison will not be performed for the next scan due to the encountered error.
System Action: Processing continues, but no benchmark comparison will be performed for the next scan.

BTAQE1129E  An outband scanner failed to read the benchmark file benchmark file name saved from the previous scan.
Explanation: An outband scanner encountered an error while reading the benchmark file. This file is created when the scanner is run for the first time. When the scanner is invoked again, the scan data is compared against the saved benchmark data from the previous scan for optimization processing. Benchmark comparison is not performed for the current scan due to the encountered error.
System Action: Processing continues, but no benchmark comparison is performed for current scan.
Administrator Response: Check to see if the benchmark file name exists in the specified path on the manager system. If the problem continues, contact IBM customer support.

BTAQE1130E  An outband scanner failed to decrypt the password for target target IP.
Explanation: An outband scanner encountered an error decrypting an outband agent password to target address target IP. Either the encrypted password does not exist, or it has been corrupted.
Administrator Response: Restart the product. If the problem continues, contact IBM customer support.

BTAQE1131E  The BrocadeApiScanner failed to load the Brocade API library.
Explanation: The Brocade API library could not be found on the manager system. The BrocadeApiScanner was not able to load the Brocade API library. This is most likely caused by an installation problem.
Administrator Response: If the problem continues, contact IBM customer support.

BTAQE1132E  The user ID or password entered for the outband agent target address target address is incorrect.
Explanation: An outband scanner encountered an error attempting to use the user ID or password entered for the outband agent target address target address. Either the user ID or password entered for the target address is incorrect.
Administrator Response: Use the Configure Agent dialog to reenter the user ID or password. If the problem continues, contact IBM customer support.
BTAQE1133E  The outband agent target address IP address is not a Brocade device or is invalid.

Explanation: The BrocadeApiScanner cannot be run on the outband agent target address IP address. Either the device is not a Brocade device or the IP address is not valid.

Administrator Response: If the problem continues, contact IBM customer support.

BTAQE1134I  The outband agent target address TargetIP address does not respond to Fibre Channel Management MIB (previously called the Fibre Alliance MIB) queries.

Explanation: A basic query to the Fibre Channel Management MIB to IP address TargetIP address did not respond. Either the device does not support the Fibre Channel Management MIB, or it is not enabled.

Administrator Response: If the problem continues, contact IBM customer support.

BTAQE1135E  Unable to get the license state from the license server.

Explanation: Unable to get either the license state or the license state value from the license server.

Administrator Response: No operator response

BTAQE1136E  The Query Engine cannot obtain a valid IP address for the host target.

Explanation: The host might have an invalid IP address.

Administrator Response: Verify the IP address of the host. Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.

BTAQE1137E  The Query Engine could not obtain the information for target host target from the database.

Explanation: An error occurred while attempting to obtain target host information. This could be caused by a network error, or there could be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTAQE1138E  The Query Engine could not obtain the capability information for target host target from the database.

Explanation: An error occurred while attempting to obtain target host capability information. This could be caused by a network error, or there could be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTAQE1139E  The Query Engine could not obtain the information for all known target hosts from the database.

Explanation: An error occurred while attempting to obtain target host information. This could be caused by a network error, or there could be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTAQE1140E  Error creating an event subscriber.

Explanation: The Query Engine received an error while trying to create an event subscriber. This might have been caused by a service not starting properly. This will not affect system processing.

Administrator Response: If this message continues to appear, contact IBM customer support.

BTAQE1141E  The Query Engine could not obtain the scheduled scan information from the database.

Explanation: An error occurred while attempting to obtain scheduled scan information. This could be caused by a network error, or there could be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTAQE1142E  The Query Engine could not obtain the list of active scanners from the database.

Explanation: An error occurred while attempting to obtain the list of active scanners. This could be caused by a network error, or there could be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.
online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

**BTAQE1143E**  The Query Engine could not obtain the list of inactive scanners from the database.

**Explanation:** An error occurred while attempting to obtain the list of inactive scanners. This could be caused by a network error, or there could be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

**BTAQE1144E**  An error occurred attempting to run the scanner name scanner on the IBM Tivoli Storage Area Network Manager managed host target.

**Explanation:** IBM Tivoli Storage Area Network Manager periodically scans each managed host to identify associated devices.

**Administrator Response:** Check the status of the managed hosts. Check the message log file on the managed host for any error information. Restart any hosts that are not running properly.

**BTAQE1145E**  The scanner name scanner running on the IBM Tivoli Storage Area Network Manager managed host target found no SAN.

**Explanation:** An error occurred attempting to run a scan on one of the IBM Tivoli Storage Area Network Manager managed hosts. The scanner did not find a Storage Area Network (SAN).

**Administrator Response:** Check that the host-based adapter (HBA) is properly connected to the Storage Area Network.

**BTAQE1146E**  The scanner name scanner running on IBM Tivoli Storage Area Network Manager managed host target found no host-based adapter (HBA).

**Explanation:** An error occurred while attempting to run a scan on one of the IBM Tivoli Storage Area Network Manager managed hosts. The scanner could not communicate with the HBA.

**Administrator Response:** Check that an HBA is installed in the managed host and is properly connected to the SAN. Also check that the correct level of device drivers are installed.

**BTAQE1147E**  The scanner name scanner running on IBM Tivoli Storage Area Network Manager managed host target found no SCSI host-based adapter (HBA).

**Explanation:** An error occurred while attempting to run a scan on one of the IBM Tivoli Storage Area Network Manager managed hosts. The scanner could not communicate with the HBA.

**Administrator Response:** Check that an HBA is installed in the managed host and is properly connected to the SAN. Also check that the correct level of device drivers are installed.

**BTAQE1148I**  The Error Detection and Fault Isolation function is not available from the IBM Tivoli Storage Area Network Manager managed host target because the managed host is downlevel.

**Explanation:** The Error Detection and Fault Isolation function is only available on managed hosts at release level 1.2 or higher.

**Administrator Response:** To enable the Error Detection and Fault Isolation support on the managed host, update the managed host to the most current level.

**BTAQE1149E**  A scanner overlap condition has occurred for the scanner name scanner on the IBM Tivoli Storage Area Network Manager managed host target.

**Explanation:** IBM Tivoli Storage Area Network Manager periodically scans each managed host to identify associated devices. In this case the managed host has determined that more than one scanner process of the same type attempted to run on the managed host at the same time. This condition is known as scanner overlap. The scanner overlap condition is not allowed on the managed host, and should be corrected.

**Administrator Response:** Check the status of the managed host. Check the message log file on the managed host for any error information. Terminate the scanner processes still running on the managed host. Restart the managed host if needed. If the problem continues, contact IBM customer support.

**BTAQE114E**  OutbandScannerHandler received invalid callback information for Outband scanner scanner name on target target.

**Explanation:** The information received from an outband scan appears to be invalid.

**Administrator Response:** Get the SANQueryEngine service trace information from the trace log and contact IBM customer support.
The outband agent target address \textit{TargetIP address} does not support topology discovers through SNMP Fibre Channel Management MIB (previously called the Fibre Alliance MIB), or Cisco VSAN MIB queries.

**Explanation:** A basic query to either the Fibre Channel Management MIB, or the Cisco VSAN MIB to IP address \textit{TargetIP address} did not respond. Either the device does not support the Fibre Channel Management MIB, or the Cisco VSAN MIB, or one of those MIBs is not enabled.

**Administrator Response:** If the problem continues, contact IBM customer support.

The outband agent target address \textit{TargetIP address} has been added.

**Explanation:** An agent with IP address \textit{TargetIP address} has been added.

**Administrator Response:** This event occurs as a result of adding an outband agent using the Console 'SAN->Configure Manager->Switches And Other SNMP Agents' panel.

The outband agent with target address \textit{TargetIP address} has been removed.

**Explanation:** An agent with IP address \textit{TargetIP address} has been added.

**Administrator Response:** This event occurs as a result of removing an outband agent using the Console 'SAN->Configure Manager->Switches And Other SNMP Agents' panel.

Database errors occurred while saving the task.

**Explanation:** There might be a problem with the database or the network connections to the database.

**Administrator Response:** Make sure the database is running and is properly connected to the network.

The SAN Agent Scanner failed to execute the inband scanner \textit{scanner} with the command: \textit{scan command}.

**Explanation:** An error condition prevented the scanner from executing the inband scan.

**System Action:** Processing continues, but no data is returned.

**Administrator Response:** Verify that the scanner executable \textit{scanner} exists in the specified path on the managed host system. If the problem continues, contact IBM customer support.

The SAN Agent Scanner failed to capture the inband scan data.

**Explanation:** An error condition prevented the scanner from processing the inband scan data.

**System Action:** Processing continues, but only partial data or no data is returned.

**Administrator Response:** If the problem continues, contact IBM customer support.

The SAN Agent Scanner failed to save the scan data for benchmark comparison.

**Explanation:** The scanner encountered an error while saving the scan data as a benchmark file. This file is created when the scanner is run for the first time. When the scanner is invoked again, the scan data is compared against the saved benchmark data from the previous scan for optimization processing. Benchmark comparison is not performed for the next scan due to the encountered error.

**System Action:** Processing continues, but no benchmark comparison is performed for the next scan.

**Administrator Response:** Check to see if the file system is full on the managed host system. If the problem continues, contact IBM customer support.

The SAN Agent Scanner failed to read the benchmark file \textit{benchmark file} saved from the previous scan.

**Explanation:** The scanner encountered an error while reading the benchmark file. This file is created when the scanner is run for the first time. When the scanner is invoked again, the scan data is compared against the saved benchmark data from the previous scan for optimization processing. Benchmark comparison is not performed for the current scan due to the encountered error.

**System Action:** Processing continues, but no benchmark comparison is performed for current scan.

**Administrator Response:** Check to see if the benchmark file \textit{benchmark file name} exists in the specified path on the managed host system. If the problem continues, contact IBM customer support.

The SAN Agent Scanner failed to retrieve the global unique identifier from Host Query.

**Explanation:** The scanner encountered an error while retrieving the global unique identifier for the managed
host agent from Host Query. This identifier is required for the service to initialize.

System Action: The service fails to initialize. The product cannot continue processing.

Administrator Response: Verify that the SAN Agent Host Query service is initialized. Try to restart the managed host agent if the SAN Agent Scanner is the only service that is not initialized. Otherwise, follow the instructions in the Install Guide to uninstall and reinstall the agent. If the problem continues, contact IBM customer support.

---

BTASA1406I  The SAN Agent Scanner Service has initialized successfully.
Explanation: The scanner service has initialized successfully.

---

BTASA1407I  The Inband scanner started.
Explanation: The specified inband scanner has started on the managed host.

---

BTASA1408I The Inband scanner has ended with return code return code.
Explanation: The specified inband scanner has ended on the managed host.

---

**BTASC messages**

**BTASC0000E**  An error occurred while initializing the Status Cache.
Explanation: An error occurred while initializing the Status Cache.

Administrator Response: Stop the manager, then restart the manager.

**BTASC0001E**  The Status Cache could not be loaded.
Explanation: The Status Cache was unable to read a file used for initialization. The file is only created when Clear History operations are performed, and it may not exist.

Administrator Response: Check that the drive containing the IBM Tivoli Storage Area Network Manager installation is not full.

**BTASC0002E**  An error occurred while clearing the history from Status Cache.
Explanation: An error was encountered while clearing the history from the Status Cache.

Administrator Response: Check the status of database. Also check the status of the network to make sure there are no connectivity problems.

---

**BTASC0003E**  Unable to read the REMOVED file.
Explanation: The Status Cache was unable to write a file used for initialization.

Administrator Response: Check that the drive containing the IBM Tivoli Storage Area Network Manager installation is not full.

---

**BTASC0004I**  WAIT interrupted.
Explanation: An internal wait operation within the Status Cache was interrupted by the system.

---

**BTASC0005E**  An error occurred in the processing of topology data within the Status Cache.
Explanation: An error occurred in the processing of topology data within the Status Cache.

Administrator Response: Select the POLL NOW button to perform a rediscovery operation.

---

**BTASC0006E**  An error occurred in the processing of attribute data within the Status Cache.
Explanation: An error occurred in the processing of attribute data within the Status Cache.

Administrator Response: Select the POLL NOW button to perform a rediscovery operation.
button to perform a rediscovery operation.

BTASC0007E An error occurred in the processing of scanner data within the Status Cache.

Explanation: An error occurred in the processing of scanner data within the Status Cache.

BTASD messages

BTASD1803E An error occurred while starting the Event Receiver.

Explanation: While attempting to start the Event Receiver, an error was encountered. The Event receiver is not started.

Administrator Response: If this is a remote console, stop and restart the Tomcat server on this machine. Retry the operation. If this does not clear the problem, contact IBM customer support.

BTASD1804E An error occurred while retrieving information for [0].

Explanation: There was an error while attempting to retrieve property information for the specified object.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1805E An error occurred while attempting to cancel the current database transaction.

Explanation: An error occurred while attempting to cancel the current database transaction.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM Customer Support.

BTASD1806E An error occurred in the ConsoleRequestHandler listener.

Explanation: An error occurred while trying to create the ConsoleRequestHandler listener.

Administrator Response: Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1807E An error occurred while closing the ConsoleRequestHandler listener.

Explanation: An error occurred while trying to shut down.

Administrator Response: Retry the shutdown operation. If it continues to fail, close all other running applications and restart the machine.

Administrator Response: Select the POLL NOW button to perform a rediscovery operation.

BTASD1808E An error occurred in the ConsoleRequestHandler task handler.

Explanation: An error occurred while trying to process a request.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1809E An error occurred in the ConsoleRequestHandler launch process.

Explanation: An error occurred while trying to launch.

Administrator Response: Stop and restart the Tomcat server on this machine. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1810E Received an unsupported task request, [0], from the IBM Tivoli NetView® console.

Explanation: The requested task is not supported by IBM Tivoli Storage Area Network Manager. This might have been caused by an internal system error.

Administrator Response: Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, restart the manager machine.

BTASD1813E An error occurred while closing an event subscriber.

Explanation: An error occurred while trying to close an event subscriber. This might have been caused by a service not shutting down properly. This will not affect system processing.

Administrator Response: If this message continues to appear, contact IBM customer support.

BTASD1814E An error occurred while closing the event factory.

Explanation: An error occurred while trying to close the event factory. This might have been caused by a service not shutting down properly. This will not affect system processing.

Administrator Response: If this message continues to appear, contact IBM customer support.
<table>
<thead>
<tr>
<th>BTASD1815E</th>
<th>An error occurred while receiving message.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>There was an error in receiving message.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1816E</th>
<th>An error occurred while gathering the polling information.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to get the current polling information. This might have been caused by a network error, or there might be a problem with the database.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1817E</th>
<th>An error occurred while setting the polling information.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to get the current polling information. This might have been caused by a network error, or there might be a problem with the database.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1818E</th>
<th>An error occurred while sending the Poll Now message.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to send the Poll Now message to initiate a discovery. This might have been caused by a network error, or there might be a problem with the database. The discovery event is not started.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1819E</th>
<th>An error occurred while sending the Clear Changes command.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while trying to send the Clear Changes command. This might have been caused by a network error, or there might be a problem with the database. The Clear Changes command is not executed.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1820E</th>
<th>An error occurred while gathering the agent information.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to get the host information in order to update the console display. This might have been caused by a network error, or there might be a problem with the database.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1821E</th>
<th>An error occurred while contacting target [0].</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to contact the specified host. The host might be unavailable or there might be a network error, or a problem with the database.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure that the specified host is running properly and connected to the network. Also make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1822E</th>
<th>An error occurred while saving the SNMP target list.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while trying to save the SNMP target list. This might be caused by a network error, or there might be a database problem.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1823E</th>
<th>An error occurred while gathering the properties.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to obtain the host properties from the database. This might have been caused by a network error, or there might be a problem with the database.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BTASD1824E</th>
<th>An error occurred while gathering connection information.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Explanation:</strong></td>
<td>An error occurred while attempting to obtain the host properties from the database. This might have been caused by a network error, or there might be a problem with the database.</td>
</tr>
<tr>
<td><strong>Administrator Response:</strong></td>
<td>Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.</td>
</tr>
</tbody>
</table>
online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1829E An error occurred while launching an application.

Explanation: An error occurred while attempting to launch the management application for the device. This might be caused by an incorrect address for the management application, or there might be a problem with the network.

Administrator Response: Retry the operation. If it fails again, consult the documentation for the device and try to launch the management application directly from the Windows® operating system. Also, make sure the network is functioning properly. If it continues to fail, contact the support representative for that device.

BTASD1830E An error occurred while launching web browser.

Explanation: An error occurred while trying to launch the web browser for the management application for this device. This might be caused by an incorrect address for the management application, or there might be a problem with the network.

Administrator Response: Retry the operation. If it fails again, consult the documentation for the device and try to launch the management application directly from the Windows operating system. Also, make sure the network is functioning properly. If it continues to fail, contact the support representative for that device.

BTASD1831E An error occurred while launching the Telnet browser.

Explanation: An error occurred while trying to launch the Telnet browser for the management application for this device. This might be caused by an incorrect address for the management application, or there might be a problem with the network.

Administrator Response: Retry the operation. If it fails again, consult the documentation for the device and try to launch the management application directly from the Windows operating system. Also, make sure the network is functioning properly. If it continues to fail, contact the support representative for that device.

BTASD1832E An error occurred while getting the Command String.

Explanation: An error occurred while attempting to get the command parameters. This might have been caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1833E An error occurred while launching application.

Explanation: An error occurred while attempting to launch the management application for the device. This might be caused by an error in the network, or there might be a database problem.

System Action: The management application for this device is not launched.

Administrator Response: Make sure that the PATH variable is set to the appropriate directory structure. For example, if the executable for an application is installed in Med folder, you should set the PATH variable as shown. PATH c:\program files\test; Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1834E An error occurred while writing to the console.

Explanation: An error occurred while attempting to write to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1835E An error occurred while writing a vertex to the console.

Explanation: An error occurred while attempting to write a vertex to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1836E An error occurred while writing node properties to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write FC node properties to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.
BTASD1837E  An error occurred while writing hard disk properties to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write hard disk properties to the IBM Tivoli NetView Console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1838E  An error occurred while writing internal controller properties to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write internal controller properties to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1839E  An error occurred while writing to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1840E  An error occurred while writing the LUN properties to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write the LUN properties to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1856E  Connection to the IBM Tivoli NetView daemon is down.

Explanation: An error caused the connection to the IBM Tivoli NetView daemon to drop. This might be caused by a network problem, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1857E  An error occurred while writing SAN properties to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write the SAN properties to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1859E  An error occurred while writing a status message to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write a status message to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1860E  An error occurred while writing the switch properties to the IBM Tivoli NetView console.

Explanation: An error occurred while attempting to write the switch properties to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

Administrator Response: Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1861E  An error occurred while opening the client socket.

Explanation: An error occurred while attempting to open the client socket. This might be caused by a network error.
**BTASD1862E**  An error occurred while writing an arc to the IBM Tivoli NetView console.

**Explanation:** An error occurred while attempting to write to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

**Administrator Response:** Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1863E**  An error occurred while sending the string through the socket.

**Explanation:** An error occurred while attempting to send the string through the socket. This might have been caused by a network error.

**Administrator Response:** Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1864E**  An error occurred while closing the socket.

**Explanation:** An error occurred while attempting to close the socket. This might be caused by a network error, or the socket might already be closed.

**Administrator Response:** Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1865E**  An error occurred while writing into the socket.

**Explanation:** An error occurred while attempting to write into the socket. This might be caused by a network error, or the nvdaemon might be down.

**Administrator Response:** Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1866E**  An error occurred while creating the datagram socket.

**Explanation:** An error occurred while attempting to create the datagram socket. This might be caused by a network error.

**Administrator Response:** Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1867E**  An error occurred while writing an arc to the IBM Tivoli NetView console.

**Explanation:** An error occurred while attempting to write a message to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

**Administrator Response:** Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1868E**  An error occurred while writing the arc status message to the IBM Tivoli NetView console.

**Explanation:** An error occurred while attempting to write the arc status to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

**Administrator Response:** Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1869E**  An error occurred while writing host properties to the IBM Tivoli NetView console.

**Explanation:** An error occurred while attempting to write host properties to the IBM Tivoli NetView console. This might be caused by a network error, or the SAN Manager daemon might be down.

**Administrator Response:** Make sure the network is functioning properly. Check the SAN Manager daemon. Restart the SAN Manager daemon if necessary. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1870E**  An error occurred while joining to the thread.

**Explanation:** An error occurred while attempting to join to the thread.

**Administrator Response:** Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1877E**  An error occurred while waiting.

**Explanation:** An error occurred while waiting.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.
BTASD1878E  An error occurred while processing an event.

Explanation: An error occurred while attempting to process the event. This might have been caused by an error in the network, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1879E  An error occurred while building the SAN Object Vertex.

Explanation: An error occurred while attempting to build the SAN Object Vertex.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1880E  Error while in Connectivity.

Explanation: There was a connectivity error.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1882E  Error while performing a database transaction.

Explanation: An error occurred while attempting to perform a database transaction. This might be caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1884E  An error occurred while constructing the task.

Explanation: An error occurred while constructing the task. The task is not constructed.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1886E  An error occurred while getting a list of hosts.

Explanation: An error occurred while attempting to get a list of host systems. This might be caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1887E  An error occurred while getting a list of operating systems.

Explanation: An error occurred while attempting to get a list of operating systems. This might be caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1888E  Error while getting the host file system.

Explanation: An error occurred while attempting to get the host file system. This might be caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1889E  Error while getting the logical volume.

Explanation: An error occurred while attempting to get the logical volume. This might be caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

BTASD1890E  Error while getting the physical volume.

Explanation: An error occurred while attempting to get the physical volume. This might be caused by a network error, or there might be a problem with the database.

Administrator Response: Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.
**BTASD1891E**  Error while getting the logical unit.

**Explanation:** An error occurred while attempting to get the logical unit. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1892E**  Error while getting the peripheral entities.

**Explanation:** An error occurred while attempting to get the peripheral entities. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1893E**  An error occurred while getting the zone.

**Explanation:** An error occurred while attempting to get the zone. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1894E**  An error occurred while getting the port.

**Explanation:** An error occurred while attempting to get the port. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1895E**  Error while getting the physical end point entity.

**Explanation:** An error occurred while attempting to get the physical end point entity. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1896E**  An error occurred while getting the interconnect entities.

**Explanation:** An error occurred while attempting to get the interconnect entities. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1897E**  An error occurred while getting the interconnect ports.

**Explanation:** An error occurred while attempting to get the interconnect ports. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1898E**  An error occurred while getting the volume group.

**Explanation:** An error occurred while attempting to get the volume group. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1899E**  An error occurred while getting information about the SANs.

**Explanation:** An error occurred while attempting to get information about the SANs. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

---

**BTASD1902E**  An error occurred while sending the status message.

**Explanation:** An error occurred while attempting to send the status message. This might be caused by a network error, or there might be a problem with the database.

**Administrator Response:** Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If
it continues to fail, contact IBM customer support.

**BTASD1903E**  An error occurred while building the SAN Object Vertex.

*Explanation:* An error occurred while attempting to build the SAN Object Vertex. This might be caused by a network error, or there might be a problem with the database.

*Administrator Response:* Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1907E**  An error occurred while creating the help set for help set name

*Explanation:* An error occurred while attempting to create the help set for [0]. The help set is not created. Processing continues. This might be caused by a network error.

*Administrator Response:* Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1908E**  An error occurred while opening the client socket.

*Explanation:* An error occurred while attempting to open the client socket. This might be caused by a network error.

*Administrator Response:* Make sure the network is functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1909E**  An error occurred while getting a Proxy for MiBQueryEngine.

*Explanation:* An error occurred while attempting to get the proxy for MiBQueryEngine service.

*Administrator Response:* Make sure the MiBQueryEngine service is up and running.

**BTASD1910E**  An error occurred while getting a list of hosts.

*Explanation:* An error occurred while attempting to get a list of nodes. This might be caused by a network error, or there might be a problem with the database.

*Administrator Response:* Make sure the network is functioning properly. Check to see if the database is online and functioning properly. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1911E**  An error occurred while writing an icon message to the IBM Tivoli NetView console.

*Explanation:* An error occurred while attempting to write to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

*Administrator Response:* Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1912E**  An error occurred while writing a label message to the IBM Tivoli NetView console.

*Explanation:* An error occurred while attempting to write to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

*Administrator Response:* Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1913E**  An error occurred while writing a property message to the IBM Tivoli NetView console.

*Explanation:* An error occurred while attempting to write to the IBM Tivoli NetView console. This might be caused by a network error, or the nvdaemon might be down.

*Administrator Response:* Make sure the network is functioning properly. Check the nvdaemon. Restart the nvdaemon if it is not running. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1914E**  An error occurred while retrieving the EDFI state for the device from the database.

*Explanation:* An error occurred while attempting to read from the IBM Tivoli Storage Area Network Manager database. This might be caused by a database error.

*Administrator Response:* Make sure the database is functioning properly. Check the database. Restart IBM Tivoli Storage Area Network Manager. Retry the operation. If it continues to fail, contact IBM customer support.

**BTASD1915E**  An error occurred while attempting to configure zoning.

*Explanation:* Zoning is already in the process of being configured for this SAN.
**BTASD1916E • BTAZC0005E**

**BTASD1916E** An error occurred while attempting to configure zoning.

**Explanation:** Zone Control was not available for this SAN.

**Administrator Response:** Check to see that the ZoneService is up and running and that an agent capable of zoning is available for this SAN.

---

**BTASD1917E** An error occurred while attempting to configure zoning.

**Explanation:** Token was invalid in starting transaction.

**Administrator Response:** Check to see that the ZoneService is up and running and that an agent capable of zoning is available for this SAN.

---

**BTASS messages**

**BTASS5001E CIMException : CIM_ERR_FAILED**

**Explanation:** CIMException : CIM_ERR_FAILED

**Administrator Response:** CIM_ERR_FAILED. Check if the CIMOMServer service has started successfully. Retry the operation. If this does not clear the problem, contact IBM customer support.

---

**BTASS5002E CIMException : CIM_ERR_NOT_SUPPORTED**

**Explanation:** CIMException : CIM_ERR_NOT_SUPPORTED

---

**BTAZC messages**

**BTAZC0001E** An error occurred while parsing the Zoning Configuration XML for SAN SAN_name.

**Explanation:** The ZoneControlAgent failed to parse an XML stream which defines the current Zoning Configuration for the SAN.

**Administrator Response:** Get the ZoneControl service trace information from the trace log and contact IBM customer support.

---

**BTAZC0002E** Failed to create or update zone set zone_set_name on the GS3 SAN SAN_name.

**Explanation:** The ZoneControlAgent was attempting to create or update a zone set on a fabric using GS3. The ZoneControlAgent failed to create or update the zone set, with all of its corresponding zones and the zone’s members.

**Administrator Response:** Get the GS3 nativetelog information and contact IBM customer support.

---

**BTAZC0003E** Failed to delete zone set zone_set_name on the GS3 SAN SAN_name.

**Explanation:** The ZoneControlAgent was attempting to delete a zone set on a fabric using GS3. The ZoneControlAgent failed to delete the zone set, with all of its corresponding zones and the zone’s members.

**Administrator Response:** Get the GS3 nativetelog information and contact IBM customer support.

---

**BTAZC0004E** Unable to start transaction on the SAN SAN_name.

**Explanation:** The ZoneControlAgent was attempting to establish a session with the fabric. A failure occurred during this process.

**Administrator Response:** Get the Brocade nativetelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0005E** Unable to commit a transaction on the Brocade SAN SAN_name.

**Explanation:** The ZoneControlAgent has sent one or more Zoning Configuration Command requests to the Brocade fabric. The ZoneControlAgent was attempting to commit these requests to the Brocade fabric. A failure occurred during this attempt.

**Administrator Response:** Get the Brocade nativetelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.
**BTAZC0006E** Failed to deactivate the zone set

*zone_set_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to deactivate the active zone set.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0007E** Failed to activate the zone set

*zone_set_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to activate a specific zone set.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0008E** Failed to delete the zone set

*zone_set_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to delete a specific zone set.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0009E** Failed to delete the zone alias

*zone_alias_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to delete a specific zone alias.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0010E** Failed to create the zone alias

*zone_alias_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to create a specific zone alias.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0011E** Failed to create a customer zone

*zone_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to create a specific zone.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0012E** Failed to create the zone set

*zone_set_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to create a specific zone set.

**Administrator Response:** Get the Brocade nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0013E** Failed to create the zone set

*zone_set_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to create a specific zone set.

**Administrator Response:** Get the GS3 nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC0014E** Failed to deactivate the zone set

*zone_set_name on SAN SAN_name.*

**Explanation:** The ZoneControlAgent was unable to deactivate the active zone set.

**Administrator Response:** Get the GS3 nativelog information and the ZoneControl service trace information from the trace log and then contact IBM customer support.

---

**BTAZC5000I** Started ZoneControl layer.

**Explanation:** The ZoneControl layer has been started.

---

**BTAZC5001I** reserve: SAN=SAN_name,

  Agent=agent_name, Client=client_name,

  Token=token_ID.

**Explanation:** The ZoneControl reserve API is used to reserve access of the zone control commands for a particular SAN.

---

**BTAZC5002I** startTransaction: SAN=SAN_name,

  Client=client_name, Token=token_ID,

  result=return_code.

**Explanation:** The ZoneControl startTransaction API is used to begin a zone control transaction on the specified SAN.

---

**BTAZC5003I** startTransaction: SAN=SAN_name,

  Client=client_name, Token=token_ID,

  result=return_code.

**Explanation:** The ZoneControl commitTransaction API is used to apply zone control changes for this
transaction on the specified SAN.

**BTAZC5004I** rollbackTransaction: SAN=SAN_name,
Client=client_name, Token=token_ID.
result=return_code.

Explanation: The ZoneControl rollbackTransaction API is used to remove zone control changes for this transaction that were started on the specified SAN.

**BTAZC5005I** setZoneInfo: SAN=SAN_name,
Client=client_name, Token=token_ID.
result=return_code.

Explanation: The ZoneControl setZoneInfo API is used to apply zone control changes for this transaction on the specified SAN.

**BTAZC5006I** sendCommandArray: SAN=SAN_name,
Client=client_name, Token=token_ID.
result=return_code.

Explanation: The ZoneControl sendCommandArray API is used to make zone configuration changes on the specified SAN.

**BTAZC5007I** release: SAN=SAN_name,
Client=client_name, Token=token_ID.
result=return_code.

Explanation: The ZoneControl release API is used to release access of the zone control commands for a particular SAN.

**BTAZC5008I** createZoneSet: 
zoneSetName=zone_set_name,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl createZoneSet API is used to create a zone set with the specified name.

**BTAZC5009I** createZone: zoneName=zone_name,
zoneType=zone_type,
zoneSubType=zone_subtype,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl createZone API is used to create a zone with the specified name, type, and subtype.

**BTAZC5010I** createZoneAlias: 
zoneAliasName=zone_alias_name,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl createZoneAlias API is used to create a zone alias with the specified name.

**BTAZC5011I** createZoneMemberSettingData: 
zoneMemberID=zone_member_id,
zoneMemberType=zone_member_type,
targetType=target_type,
targetName=target_name,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl createZoneMemberSettingData API is used to create a zone member with the specified name, and type, add it to the specified zone or zone alias.

**BTAZC5012I** addZoneToZoneSet: 
zoneSetName=zone_set_name,
zoneName=zone_name, SAN=SAN_name,
Client=client_name, Token=token_ID.
result=return_code.

Explanation: The ZoneControl addZoneToZoneSet API is used to add the zone to the specified zone set.

**BTAZC5013I** addZoneMemberToZone: 
zoneName=zone_name,
zoneMemberID=zone_member_id,
zoneMemberType=zone_member_type,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl addZoneMemberToZone API is used to add the zone member to the specified zone.

**BTAZC5014I** addZoneAliasToZone: 
zoneName=zone_name,
zoneAliasName=zone_alias_name,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl addZoneAliasToZone API is used to add the zone alias to the specified zone.

**BTAZC5015I** addZoneMemberToZoneAlias: 
zoneAliasName=zone_alias_name,
zoneMemberID=zone_member_id,
zoneMemberType=zone_member_type,
SAN=SAN_name, Client=client_name,
Token=token_ID. result=return_code.

Explanation: The ZoneControl addZoneMemberToZoneAlias API is used to add the zone member to the specified zone alias.

**BTAZC5016I** removeZoneFromZoneSet: 
zoneSetName=zone_set_name,
zoneName=zone_name, SAN=SAN_name,
Client=client_name, Token=token_ID.
result=return_code.

Explanation: The ZoneControl removeZoneFromZoneSet API is used to remove the
zone from the specified zone set.

**BTAZC5017I** removeZoneAliasFromZone:
zoneName=zone_name,
zoneAliasName=zone_alias_name,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl removeZoneAliasFromZone API is used to remove the zone alias from the specified zone.

**BTAZC5018I** removeZoneMemberFromZone:
zoneName=zone_name,
zoneMemberID=zone_member_id,
zoneMemberType=zone_member_type,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl removeZoneMemberFromZone API is used to remove the zone member from the specified zone.

**BTAZC5019I** removeZoneMemberFromZoneAlias:
zoneAliasName=zone_alias_name,
zoneMemberID=zone_member_id,
zoneMemberType=zone_member_type,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl removeZoneMemberFromZoneAlias API is used to remove the zone member from the specified zone alias.

**BTAZC5020I** deleteZoneMember:
zoneMemberID=zone_member_id,
zoneMemberType=zone_member_type,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl deleteZoneMember API is used to delete the specified zone member.

**BTAZC5021I** deleteZone:
zoneName=zone_name,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl deleteZone API is used to delete the specified zone.

**BTAZC5022I** deleteZoneSet:
zoneSetName=zone_set_name,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl deleteZoneSet API is used to delete the specified zone set.

**BTAZC5023I** deleteZoneAlias:
zoneAliasName=zone_alias_name,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl deleteZoneAlias API is used to delete the specified zone alias.

**BTAZC5024I** activateZoneSet:
zoneSetName=zone_set_name,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl activateZoneSet API is used to make the specified zone set the currently active zone set.

**BTAZC5025I** deactivateZoneSet:
zoneSetName=zone_set_name,
SAN=SAN_name, Client=client_name,
Token=token_ID, result=return_code.

**Explanation:** The ZoneControl deactivateZoneSet API is used to deactivate the specified active zone set.

**BTAZC5026I** ping:
SAN=SAN_name,
Agent=agent_name,

**Explanation:** The ZoneControl ping API is used to find an agent to send zone control commands to for the specified SAN, and to gather zone capabilities information about the SAN.
Appendix. Notices

This information was developed for products and services offered in the U.S.A. IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user’s responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.

For license inquiries regarding double-byte (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

IBM World Trade Asia Corporation
Licensing
2-31 Roppongi 3-chome, Minato-ku
Tokyo 106, Japan

The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION “AS IS” WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.
Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Corporation
Information Enabling Requests
Dept. M13
5600 Cottle Road
San Jose CA 95193-0001
U.S.A.

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this information and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement, or any equivalent agreement between us.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

### Trademarks

The following terms are trademarks of the International Business Machines Corporation in the United States or other countries or both:

- AIX
- Database 2
- DB2
- DB2 Universal Database
- Enterprise Storage Server
- ESCON
- IBM
- IBMLink
- Magstar
- NetView
- Redbooks
- RISC System/6000
- RS/6000
- Tivoli
- Tivoli Enterprise Console

Lotus®, Lotus Notes®, and Domino™ are trademarks or registered trademarks of International Business Machines Corporation and Lotus Development Corporation in the United States, other countries, or both.

Intel and Pentium® are trademarks or registered trademarks of Intel Corporation in the United States, other countries, or both.
Microsoft®, Windows, Windows NT®, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

UNIX® is a registered trademark of the Open Group in the United States, other countries, or both.

Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc., in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.
Glossary

The terms in this glossary are defined as they pertain to the IBM Tivoli Storage Area Network Manager library. If you do not find the term you need, refer to the IBM Software Glossary on the Web at this site: http://www.ibm.com/ibm/terminology/

A

agent. An entity that represents one or more managed objects by (a) emitting notifications regarding the objects and (b) handling requests from managers for management operations to modify or query the objects. See also IBM Tivoli Storage Area Network Manager agent.

county name. The part of an SNMP message that represents a password-like name and that is used to authenticate the SNMP message.

data collection. See discovery.

discovery. The process of finding resources within an enterprise, including finding the new location of monitored resources that were moved. In IBM Tivoli Storage Area Network Manager, the process detects logical and physical storage resources in the storage environment, and their interconnections (also called topology). IBM Tivoli Storage Area Network Manager also collects attributes of storage resources, such as vital product data, and capacity and utilization measurements. Discovery includes the detection of changes in network topology, such as new and deleted nodes or new and deleted interfaces. See also discovery interval.

discovery interval. The frequency at which topology and attribute information is gathered by the IBM Tivoli Storage Area Network Manager agents and sent to the manager. The discovery interval is set by a schedule to occur either periodically or at specific times. Discovery can also occur at other times, such as when triggered by an event from a SAN switch.

event. In the Tivoli environment, any significant change in the state of a system resource, network resource, or network application. An event can be generated for a problem, for the resolution of a problem, or for the successful completion of a task. Examples of events are: the normal starting and stopping of a process, the abnormal termination of a process, or the malfunctioning of a server.

G

globally unique identifier (GUID). A 16-byte code that identifies an interface to an object across all computers and networks. The identifier is unique because it contains a time stamp and a code based on the network address that is hard-wired on the host computer’s LAN interface card.

H

host. A computer that is connected to a network (such as the Internet or a SAN) and provides a point of access to that network. Also, depending on the environment, the host can provide centralized control of the network. The host can be a client, a server, both a client and a server, a manager, or a managed host.

I

IBM Tivoli Storage Area Network Manager agent. The software on a managed host that performs local functions such as file system monitoring and in-band discovery. The functions are performed in coordination with the manager.

in-band discovery. The process of discovering information about the SAN, including topology and attribute data, through the Fibre Channel data paths. Contrast with out-of-band discovery.

L

logical unit number (LUN). An identifier used on a SCSI bus to distinguish among devices (logical units) with the same SCSI ID.

LUN. See logical unit number.

M

managed host. A host that is managed by IBM Tivoli Storage Area Network Manager. The host has an IBM
Tivoli Storage Area Network Manager agent installed and active on it. Managed hosts are used for in-band discovery of the SAN.

**manager.** The IBM Tivoli Storage Area Network Manager component that is installed on a host and provides centralized control of the product. The manager gathers data from SNMP agents and agents on managed hosts and provides graphical displays of SANs. The manager can also forward events to the Tivoli Enterprise Console or an SNMP console.

**R**

**remote console.** An IBM Tivoli Storage Area Network Manager console that is installed on a machine other than the one on which the manager is installed. A remote console lets you access IBM Tivoli Storage Area Network Manager from any location.

**O**

**out-of-band discovery.** The process of discovering SAN information, including topology and device data, without using the Fibre Channel data paths. A common mechanism for out-of-band discovery is the use of SNMP MIB queries, which are invoked over a TCP/IP network. Contrast with *in-band discovery.*

**T**

**topology.** The physical and logical arrangement of devices in a storage area network (SAN). Topology can be displayed graphically, showing devices and their interconnections.

**V**

| **VSAN.** See *virtual storage area network.* |

**virtual storage area network (VSAN).** A Cisco technology that allows independent logical fabrics to be defined from a set of one or more physical switches. A given switch port is assigned to only one VSAN. Each VSAN is completely isolated from the other VSANs and functions as a separate and independent fabric with its own set of fabric services (for example, Name Services, zoning, routing, and so on).

**Z**

| **zone.** A segment of a SAN fabric composed of selected storage devices nodes and server nodes. Only the members of a zone have access to one another. |

| **zone members.** The devices in a zone. |

| **zone set.** A group of zones that function together on the fabric. Each zone set can accommodate up to 256 zones. All devices in a zone see only devices assigned to that zone, but any device in that zone can be a member of other zones in the zone set. |