

IBM Tivoli Storage Manager for Enterprise Resource  
Planning  
Version 6.3.0

*Data Protection for SAP*  
*Messages*





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Planning  
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**Note:**

Before using this information and the product it supports, read the information in "Notices" on page 71.

This edition applies to Version 6.3.0 of IBM Tivoli Storage Manager for Enterprise Resource Planning, Data Protection for SAP (product number 5608-E05) and to all subsequent releases and modification until otherwise indicated in new editions or technical newsletters.

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## About this publication

IBM® Tivoli® Storage Manager for ERP, Data Protection for SAP is an enterprise-wide storage management application for the network. It backs up and restores DB2 SAP systems and Oracle SAP systems to Tivoli Storage Manager storage.

This publication contains explanations and suggested actions for messages issued by IBM Tivoli Storage Manager for ERP, Data Protection for SAP.

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## Who should read this guide

The target audience for this publication is system administrators who use Tivoli Storage Manager for ERP, Data Protection for SAP.

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## Publications

Publications for the IBM Tivoli Storage Manager family of products are available online. The IBM Tivoli Storage Manager product family includes IBM Tivoli Storage FlashCopy® Manager, IBM Tivoli Storage Manager for Space Management, IBM Tivoli Storage Manager for Databases, and several other storage management products from IBM Tivoli.

To search all publications, go to the Tivoli Storage Manager information center at <http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3>.

You can download PDF versions of publications from the Tivoli Storage Manager information center or from the IBM Publications Center at <http://www.ibm.com/shop/publications/order/>.

Go to Tivoli Documentation Central to find information centers that contain official product documentation for current and previous versions of Tivoli products, including the Tivoli Storage Manager product family. You can find Tivoli Documentation Central at <https://www.ibm.com/developerworks/wikis/display/tivolidoccentral/Home>.

You can also order some related publications from the IBM Publications Center website. The website provides information about ordering publications from countries other than the United States. In the United States, you can order publications by calling 1-800-879-2755.

## Tivoli Storage Manager publications

The following tables list the publications that make up the Tivoli Storage Manager library.

*Table 1. Tivoli Storage Manager server publications*

Publication title	Order number
<i>IBM Tivoli Storage Manager for AIX Installation Guide</i>	GC23-9781
<i>IBM Tivoli Storage Manager for AIX Administrator's Guide</i>	SC23-9769
<i>IBM Tivoli Storage Manager for AIX Administrator's Reference</i>	SC23-9775

*Table 1. Tivoli Storage Manager server publications (continued)*

<b>Publication title</b>	<b>Order number</b>
<i>IBM Tivoli Storage Manager for HP-UX Installation Guide</i>	GC23-9782
<i>IBM Tivoli Storage Manager for HP-UX Administrator's Guide</i>	SC23-9770
<i>IBM Tivoli Storage Manager for HP-UX Administrator's Reference</i>	SC23-9776
<i>IBM Tivoli Storage Manager for Linux Installation Guide</i>	GC23-9783
<i>IBM Tivoli Storage Manager for Linux Administrator's Guide</i>	SC23-9771
<i>IBM Tivoli Storage Manager for Linux Administrator's Reference</i>	SC23-9777
<i>IBM Tivoli Storage Manager for Oracle Solaris Installation Guide</i>	GC23-9784
<i>IBM Tivoli Storage Manager for Oracle Solaris Administrator's Guide</i>	SC23-9772
<i>IBM Tivoli Storage Manager for Oracle Solaris Administrator's Reference</i>	SC23-9778
<i>IBM Tivoli Storage Manager for Windows Installation Guide</i>	GC23-9785
<i>IBM Tivoli Storage Manager for Windows Administrator's Guide</i>	SC23-9773
<i>IBM Tivoli Storage Manager for Windows Administrator's Reference</i>	SC23-9779
<i>IBM Tivoli Storage Manager for z/OS Media Installation and User's Guide</i>	SC27-4018
<i>IBM Tivoli Storage Manager Upgrade and Migration Guide for V5 Servers</i>	GC27-4017
<i>IBM Tivoli Storage Manager Integration Guide for Tivoli Storage Manager FastBack®</i>	SC27-2828

*Table 2. Tivoli Storage Manager storage agent publications*

<b>Publication title</b>	<b>Order number</b>
<i>IBM Tivoli Storage Manager for SAN for AIX Storage Agent User's Guide</i>	SC23-9797
<i>IBM Tivoli Storage Manager for SAN for HP-UX Storage Agent User's Guide</i>	SC23-9798
<i>IBM Tivoli Storage Manager for SAN for Linux Storage Agent User's Guide</i>	SC23-9799
<i>IBM Tivoli Storage Manager for SAN for Oracle Solaris Storage Agent User's Guide</i>	SC23-9800
<i>IBM Tivoli Storage Manager for SAN for Windows Storage Agent User's Guide</i>	SC23-9553

*Table 3. Tivoli Storage Manager client publications*

<b>Publication title</b>	<b>Order number</b>
<i>IBM Tivoli Storage Manager for UNIX and Linux: Backup-Archive Clients Installation and User's Guide</i>	SC23-9791
<i>IBM Tivoli Storage Manager for Windows: Backup-Archive Clients Installation and User's Guide</i>	SC23-9792
<i>IBM Tivoli Storage Manager Using the Application Programming Interface</i>	SC23-9793
<i>IBM Tivoli Storage Manager for Space Management for UNIX and Linux: User's Guide</i>	SC23-9794
<i>IBM Tivoli Storage Manager HSM for Windows Administration Guide</i>	SC23-9795



**Table 4. Tivoli Storage Manager data protection publications**

<b>Publication title</b>	<b>Order number</b>
<i>IBM Tivoli Storage Manager for Databases: Data Protection for Microsoft SQL Server Installation and User's Guide</i>	GC27-4010
<i>IBM Tivoli Storage Manager for Databases: Data Protection for Oracle for UNIX and Linux Installation and User's Guide</i>	SC27-4019
<i>IBM Tivoli Storage Manager for Databases: Data Protection for Oracle for Windows Installation and User's Guide</i>	SC27-4020
<i>IBM Tivoli Storage Manager for Mail: Data Protection for Microsoft Exchange Server Installation and User's Guide</i>	GC27-4009
<i>IBM Tivoli Storage Manager for Mail: Data Protection for Lotus Domino® UNIX and Linux Installation and User's Guide</i>	SC27-4021
<i>IBM Tivoli Storage Manager for Mail: Data Protection for Lotus Domino for Windows Installation and User's Guide</i>	SC27-4022
<i>IBM Tivoli Storage Manager for Enterprise Resource Planning: Data Protection for SAP Installation and User's Guide for DB2</i>	SC33-6341
<i>IBM Tivoli Storage Manager for Enterprise Resource Planning: Data Protection for SAP Installation and User's Guide for Oracle</i>	SC33-6340
<i>IBM Tivoli Storage Manager for Virtual Environments Installation and User's Guide</i>	SC27-2898
<i>IBM Tivoli Storage Manager for Microsoft SharePoint Guide</i>	N/A

**Table 5. IBM Tivoli Storage Manager troubleshooting and tuning publications**

<b>Publication title</b>	<b>Order number</b>
<i>IBM Tivoli Storage Manager Problem Determination Guide</i>	GC23-9789
<i>IBM Tivoli Storage Manager Performance Tuning Guide</i>	GC23-9788
<i>IBM Tivoli Storage Manager Client Messages and Application Programming Interface Return Codes</i>	SC27-2878
<i>IBM Tivoli Storage Manager Server Messages and Error Codes</i>	SC27-2877
<i>IBM Tivoli Storage Manager for Mail: Data Protection for Microsoft Exchange Server Messages</i>	GC27-4011
<i>IBM Tivoli Storage Manager for Databases: Data Protection for Microsoft SQL Server Messages</i>	GC27-4012
<i>IBM Tivoli Storage Manager for Databases: Data Protection for Oracle Messages</i>	SC27-4014
<i>IBM Tivoli Storage Manager for Mail: Data Protection for Lotus Domino Messages</i>	SC27-4015
<i>IBM Tivoli Storage Manager for Enterprise Resource Planning: Data Protection for SAP Messages</i>	SC27-4016

**Note:** You can find information about IBM System Storage® Archive Manager at [http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3/c\\_complydataretention\\_ovr.html](http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3/c_complydataretention_ovr.html).

---

## Support information

You can find support information for IBM products from various sources.

Start at the IBM Support Portal: <http://www.ibm.com/support/entry/portal/>. You can select the products that you are interested in and search for a wide variety of relevant information.

## Getting technical training

Information about Tivoli technical training courses is available online.

Go to the following websites to sign up for training, ask questions, and interact with others who use IBM storage products.

### **Tivoli software training and certification**

Choose from instructor led, online classroom training, self-paced Web classes, Tivoli certification preparation, and other training options at <http://www.ibm.com/software/tivoli/education/>

### **Tivoli Support Technical Exchange**

Technical experts share their knowledge and answer your questions in webcasts at [http://www.ibm.com/software/sysmgmt/products/support/supp\\_tech\\_exch.html](http://www.ibm.com/software/sysmgmt/products/support/supp_tech_exch.html).

### **Storage Management community**

Interact with others who use IBM storage management products at <http://www.ibm.com/developerworks/servicemanagement/sm/index.html>

### **Global Tivoli User Community**

Share information and learn from other Tivoli users throughout the world at <http://www.tivoli-ug.org/>.

### **IBM Education Assistant**

View short "how to" recordings designed to help you use IBM software products more effectively at <http://publib.boulder.ibm.com/infocenter/ieduasst/tivv1r0/index.jsp>

## Searching knowledge bases

If you have a problem with your Tivoli Storage Manager family product, there are several knowledge bases that you can search.

Begin by searching the Tivoli Storage Manager Information Center at <http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3>. From this website, you can search the current Tivoli Storage Manager documentation.

### **Searching the Internet**

If you cannot find an answer to your question in the IBM Tivoli Storage Manager information center, search the Internet for the information that might help you resolve your problem.

To search multiple Internet resources, go to the IBM support website at <http://www.ibm.com/support/entry/portal/>.

You can search for information without signing in. Sign in using your IBM ID and password if you want to customize the site based on your product usage and

information needs. If you do not already have an IBM ID and password, click **Sign in** at the top of the page and follow the instructions to register.

From the support website, you can search various resources including:

- IBM technotes
- IBM downloads
- IBM Redbooks® publications
- IBM Authorized Program Analysis Reports (APARs)

Select the product and click **Downloads** to search the APAR list.

If you still cannot find a solution to the problem, you can search forums and newsgroups on the Internet for the latest information that might help you find problem resolution.

An independent user discussion list, ADSM-L, is hosted by Marist College. You can subscribe by sending an email to [listserv@vm.marist.edu](mailto:listserv@vm.marist.edu). The body of the message must contain the following text: SUBSCRIBE ADSM-L *your\_first\_name your\_family\_name*.

To share your experiences and learn from others in the Tivoli Storage Manager and Tivoli Storage FlashCopy Manager user communities, go to the following wikis:

**Tivoli Storage Manager wiki**

<http://www.ibm.com/developerworks/wikis/display/tivolistoragemanager>

**Tivoli Storage FlashCopy Manager wiki**

[https://www.ibm.com/developerworks/mydeveloperworks/wikis/home/wiki/Tivoli Storage FlashCopy Manager](https://www.ibm.com/developerworks/mydeveloperworks/wikis/home/wiki/Tivoli%20Storage%20FlashCopy%20Manager)

## Using IBM Support Assistant

IBM Support Assistant is a complimentary software product that can help you with problem determination. It is available for some Tivoli Storage Manager and Tivoli Storage FlashCopy Manager products.

To learn about which products are supported, go to the IBM Support Assistant download web page at <http://www.ibm.com/software/support/isa/download.html>.

IBM Support Assistant helps you gather support information when you must open a problem management record (PMR), which you can then use to track the problem. The product-specific plug-in modules provide you with the following resources:

- Support links
- Education links
- Ability to submit problem management reports

You can find more information at the IBM Support Assistant website:

<http://www.ibm.com/software/support/isa/>

You can also install the stand-alone IBM Support Assistant application on any workstation. You can then enhance the application by installing product-specific plug-in modules for the IBM products that you use. Find add-ons for specific products at <http://www.ibm.com/support/docview.wss?uid=swg27012689>.

## Finding product fixes

A product fix to resolve your problem might be available from the IBM software support website.

You can determine what fixes are available by checking the IBM software support website at <http://www.ibm.com/support/entry/portal/>.

- If you previously customized the site based on your product usage:
  1. Click the link for your product, or a component for which you want to find a fix.
  2. Click **Downloads**, and then click **Fixes by version**.
- If you have not customized the site based on your product usage, click **Downloads** and search for your product.

## Receiving notification of product fixes

You can receive notifications about fixes, flashes, upgrades, and other news about IBM products.

To sign up to receive notifications about IBM products, follow these steps:

1. From the support page at <http://www.ibm.com/support/entry/portal/>, click **Sign in to create, manage, or view your subscriptions** in the **Notifications** pane.
2. Sign in using your IBM ID and password. If you do not have an ID and password, click **register now** and complete the registration process.
3. Click **Manage all my subscriptions** in the **Notifications** pane.
4. Click the **Subscribe** tab and then click **Tivoli**.
5. Select the products for which you want to receive notifications and click **Continue**.
6. Specify your notification preferences and click **Submit**.

## Contacting IBM Software Support

You can contact IBM Software Support if you have an active IBM subscription and support contract and if you are authorized to submit problems to IBM.

To obtain help from IBM Software Support, complete the following steps:

1. Ensure that you have completed the following prerequisites:
  - a. Set up a subscription and support contract.
  - b. Determine the business impact of your problem.
  - c. Describe your problem and gather background information.
2. Follow the instructions in “Submitting the problem to IBM Software Support” on page xii.

## Setting up a subscription and support contract

Set up a subscription and support contract. The type of contract that you need depends on the type of product you have.

For IBM distributed software products (including, but not limited to, IBM Tivoli, Lotus®, and Rational® products, as well as IBM DB2® and IBM WebSphere® products that run on Microsoft Windows or on operating systems such as AIX or Linux), enroll in IBM Passport Advantage® in one of the following ways:

- **Online:** Go to the Passport Advantage website at <http://www.ibm.com/software/lotus/passportadvantage/>, click **How to enroll**, and follow the instructions.
- **By telephone:** You can call 1-800-IBMSERV (1-800-426-7378) in the United States. For the telephone number to call in your country, go to the IBM Software Support Handbook web page at <http://www14.software.ibm.com/webapp/set2/sas/f/handbook/home.html> and click **Contacts**.

## Determining the business impact

When you report a problem to IBM, you are asked to supply a severity level. Therefore, you must understand and assess the business impact of the problem you are reporting.

<b>Severity 1</b>	<b>Critical</b> business impact: You are unable to use the program, resulting in a critical impact on operations. This condition requires an immediate solution.
<b>Severity 2</b>	<b>Significant</b> business impact: The program is usable but is severely limited.
<b>Severity 3</b>	<b>Some</b> business impact: The program is usable with less significant features (not critical to operations) unavailable.
<b>Severity 4</b>	<b>Minimal</b> business impact: The problem causes little impact on operations, or a reasonable circumvention to the problem has been implemented.

## Describing the problem and gathering background information

When explaining a problem to IBM, it is helpful to be as specific as possible. Include all relevant background information so that IBM Software Support specialists can help you solve the problem efficiently.

To save time, know the answers to these questions:

- What software versions were you running when the problem occurred?
- Do you have logs, traces, and messages that are related to the problem symptoms? IBM Software Support is likely to ask for this information.
- Can the problem be re-created? If so, what steps led to the failure?
- Have any changes been made to the system? For example, hardware, operating system, networking software, and so on.
- Are you using a workaround for this problem? If so, be prepared to explain it when you report the problem.

## Submitting the problem to IBM Software Support

You can submit the problem to IBM Software Support online or by telephone.

### Online

Go to the IBM Software Support website at [http://www.ibm.com/support/entry/portal/Open\\_service\\_request/Software/Software\\_support\\_\(general\)](http://www.ibm.com/support/entry/portal/Open_service_request/Software/Software_support_(general)). Sign in to access IBM Service Requests and enter your information into the problem submission tool.

### By telephone

For the telephone number to call in your country, go to the IBM Software Support Handbook at <http://www14.software.ibm.com/webapp/set2/sas/f/handbook/home.html> and click **Contacts**.

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## Chapter 1. Introduction to Tivoli Storage Manager for ERP messages

This publication contains explanations and suggested actions for messages issued by Tivoli Storage Manager for ERP.

This introduction contains information to help you to understand the messages issued by this component.

---

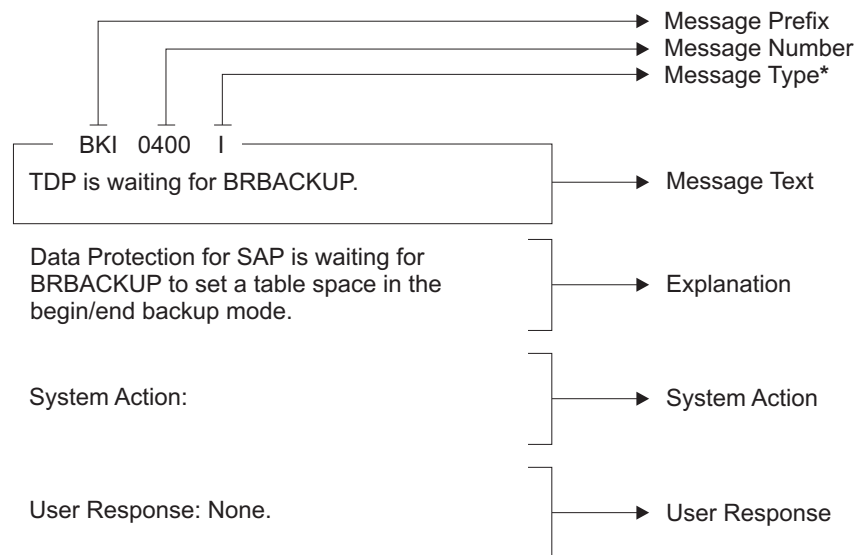
### Tivoli Storage Manager for ERP messages format

Messages consist of the following elements:

- A three-letter prefix.
- A numeric message identifier.
- A one-letter severity code, also called the message type.
- Message text that is displayed on screen and written to message logs.
- Explanation, System Action, and User Response texts. These texts elaborate on the message text, and are accessible only in documentation.

The image below presents a typical message.

The callouts on the right of the image identify each element of the message.



I = Information  
\* E = Error  
S = Severe Error  
W = Warning

The severity codes give an indication of the severity of the issue that generated the message. The severity codes and their meanings are as follows:

E	Error	Processing cannot continue.
W	Warning	Processing can continue, but problems might occur later.
I	Information	Processing continues. User response is not necessary.

Message variables in the message text appear in italics.



---

## Chapter 2. BKI: IBM Tivoli Storage Manager for Enterprise Resource Planning messages version 6.3

This section contains BKI messages for IBM Tivoli Storage Manager for Enterprise Resource Planning version 6.3.

ALL prefix BKI messages are issued by IBM Tivoli Storage Manager for Enterprise Resource Planning.

Version 6.3.0 messages that are new, changed, or deleted since the previous release are listed in one section. All version 6.3.0 messages are documented in another section.

---

### IBM Tivoli Storage Manager for Enterprise Resource Planning version 6.3.0 messages changes from the previous version

This section lists the version 6.3.0 BKI messages that are new or changed since the previous version. Only the message ID is listed.

BKI0008E  
BKI0009E  
BKI0023I  
BKI0027I  
BKI1158T  
BKI1215I  
BKI1228W  
BKI1231E  
BKI1516I  
BKI1535E  
BKI1537E  
BKI1545E  
BKI1561E  
BKI1569I  
BKI1581E  
BKI1582I  
BKI1586E  
BKI2001E  
BKI4008E  
BKI4011W  
BKI4012E  
BKI5012E  
BKI5015W  
BKI7060I  
BKI7303W  
BKI7311I  
BKI7540E

BKI7541E  
BKI7542I  
BKI7543I  
BKI7544E  
BKI7545I  
BKI7546E  
BKI7547E  
BKI7548E  
BKI7549E  
BKI7550E  
BKI7551E  
BKI7552E  
BKI7553I  
BKI7554E  
BKI7555E  
BKI7556E  
BKI8313E  
BKI8332E  
BKI8351E  
BKI8352E  
BKI8359E  
BKI8366E  
BKI8369E  
BKI8388W  
BKI8394E  
BKI8395E  
BKI8396E  
BKI8397E  
BKI8398E  
BKI8400E  
BKI8401E  
BKI8403E  
BKI8404E  
BKI8405E  
BKI8407E  
BKI8408E  
BKI8409E  
BKI8414E  
BKI8420E  
BKI8435W  
BKI8439E  
BKI8525E  
BKI8526E  
BKI8583E  
BKI8727E

BKI9003E  
 BKI9004E  
 BKI9009W  
 BKI9200E  
 BKI9201E  
 BKI9202E  
 BKI9203E  
 BKI9226E  
 BKI9227E  
 BKI9228E  
 BKI9229E  
 BKI9312E  
 BKI9317E

---

## IBM Tivoli Storage Manager for Enterprise Resource Planning version 6.3.0 messages deletions from the previous version

No messages are deleted since the previous version.

---

## IBM Tivoli Storage Manager for Enterprise Resource Planning version 6.3.0 messages

This section documents the IBM Tivoli Storage Manager for Enterprise Resource Planning 6.3.0 messages. The messages are listed in ascending numeric order. The complete message is documented, including message ID, message text, explanation, system action, and user response.

---

**BKI0001E**    **Profile not specified.**

**Explanation:** Cannot locate the profile.

**System action:**

**User response:** Ensure that a profile is available.  
 (Oracle) Note that the BACKINT call must have the following form: backint -p init<SID>.utl .

---

**BKI0004E**    **Function not defined. [ *function* ]**

**Explanation:** BRTOOLS, BRBACKUP, or BRARCHIVE passed an invalid argument to Data Protection for SAP.

**System action:**

**User response:** Ensure that you have the correct version of BR\*Tools installed. Valid functions are: -f backup or -f restore or -f password or -f delete or -f inquire.

---

**BKI0005I**    **Start of program at: *time*.**

**Explanation:** The operation started at the time denoted.

**System action:**

**User response:** None.

---

**BKI0006E**    **Type for backup not defined [ *type* ].  
 Please use 'file' or 'file\_online'.**

**Explanation:** Data Protection for SAP expects as the backup type parameter only file or file\_online.

**System action:**

**User response:** If you start Data Protection for SAP manually to do a backup, ensure that the type option (-t) receives the correct arguments (file or file\_online). If your Data Protection for SAP has been invoked by one of the SAP database utilities (for example, \*\*BRBACKUP\*\*), ensure that the SAP backup profile init<SID>.sap is customized correctly.

---

**BKI0007E**    **Mode *mode* requires the environment variable *environment variables* to be set.**

**Explanation:** Not all environment variables required have been set. At least *environment variables* are missing.

**System action:**

**User response:** Set the missing environment variables.

---

**BKI0008E**    **The environment variable *name* is not set correctly. The current value is "*value*".**

**Explanation:** The value of the environment variable *name* is wrong.

**System action:**

**User response:** Set *name* to an appropriate value.

---

**BKI0009E**     **The option 'option' must be specified after the '-t FAKE' option. This is true for all fake relevant options.**

**Explanation:** The attempt by the Administration Assistant to start a backup or restore simulation failed.

**System action:** Processing ends.

**User response:** Contact IBM support.

---

**BKI0010E**     **The option 'option' contains an invalid argument**

**Explanation:** The attempt by the Administration Assistant to start a backup or restore simulation failed.

**System action:** Processing ends.

**User response:** Contact IBM support.

---

**BKI0011E**     **Semantic errors were detected in the fake definition: 'definition'**

**Explanation:** The attempt by the Administration Assistant to start a backup or restore simulation failed.

**System action:** Processing ends.

**User response:** Contact IBM support.

---

**BKI0012I**     **command: 'command'**

**Explanation:** A backup or restore simulation was started by the Administration Assistant. The command line options are shown in the message.

**System action:** Processing continues.

**User response:** None.

---

**BKI0020I**     **End of program at: time.**

**Explanation:** The operation ended at the time denoted.

**System action:**

**User response:** None.

---

**BKI0021I**     **Elapsed time: elapsed time.**

**Explanation:** The time needed for the complete operation was *elapsed time*.

**System action:**

**User response:** None.

---

**BKI0023I**     **Time: current time Done: saved bytes (percent) of bytes. Estimated end time: end time.**

**Explanation:** Finished saving a specific object at *current time*. The *saved bytes* amount of the total number of *bytes* have been saved. *percent* shows the percentage. This call will be completed at the estimated *end time*.

**System action:**

**User response:** None.

---

**BKI0024I**     **Return code is: return code.**

**Explanation:** Finished saving a specific object at *current\_time*. The *saved\_bytes* amount of the total number of bytes have been saved. *percent* shows the percentage. This call will be completed at the estimated *end\_time*.

**System action:**

**User response:** For return codes other than 0, check the run log for warnings or error messages.

---

**BKI0027I**     **Time: current time Object: current number of total number in process: file\_name Size: size, MGMNT-CLASS: management class, TSM-Server: server name .**

**Explanation:** Data Protection for SAP started saving *current number* files at *current time*. The total number of files to save is *total number*. The file *file name* is currently being processed. The files are transferred to the Tivoli Storage Manager server *server name*, which stores them in the management class *management class*.

**System action:**

**User response:** None.

---

**BKI0032E**     **Error opening file file name: system error description**

**Explanation:** A system error occurred during opening of the file *file name*. *system error description* describes the error in more detail.

**System action:**

**User response:** Read the *system error description*.

---

**BKI0048E**     **No password for node node name on server server name given on command line. When entering passwords in batch mode, you must supply values for all stanzas in the profile.**

**Explanation:** The batch mode of the password function requires a data set for all Tivoli Storage Manager server stanzas in the profile.

**System action:**

**User response:** Check the profile for active server stanzas. Use that information and try it again.

---

**BKI0049I**     **Enter the password for node** *node name* **on server** *server name*:

**Explanation:** The password for the node *node name* on the Tivoli Storage Manager server *server name* has to be entered for storing it in the DP for SAP configuration file.

**System action:**

**User response:** Enter the password for the corresponding Tivoli Storage Manager server.

---

**BKI0050I**     **Enter password for node** *node name* **on server** *server name* **again:**

**Explanation:** In order to avoid typing errors, you have to enter the password twice.

**System action:**

**User response:** Enter the password again.

---

**BKI0051I**     **Password successfully verified for node** *node name* **on server** *server name*.

**Explanation:** The password for the node *node name* on the Tivoli Storage Manager server *server name* was changed successfully.

**System action:**

**User response:** None.

---

**BKI0052E**     **Password verification for node** *node name* **on server** *server name* **failed.**

**Explanation:** The password you entered for the node *node name* on the Tivoli Storage Manager server *server name* was wrong.

**System action:**

**User response:** Enter the password again. If this error still exists, contact your Tivoli Storage Manager administrator.

---

**BKI0053I**     **Time:** *current time* **Object:** *current number of total number* **complete:** *file name* **with:** *bytes saved with description* *object description*.

**Explanation:** Data Protection for SAP completed saving *current number* file at *current time*. The total number of files to be saved is *total number*. The file *file \_name* with the size *bytes* is saved with the description *object description*.

**System action:**

**User response:** None.

---

**BKI0054I**     **Time:** *current time* **Object:** *current num of total num* **complete:** *file name* **with:** *bytes restored with description* *object description* .

**Explanation:** Data Protection for SAP completed restoring of *current num* file at *current time*. The total number of files to be restored is *total num*. The file *file name* with the size *bytes* is restored with the description *object description*.

**System action:**

**User response:** None.

---

**BKI0055I**     **Object** *object name* **with size** **saved with description** *description*.

**Explanation:** The object *object name* was saved successfully.

**System action:**

**User response:** None.

---

**BKI0056I**     **Object** *object name* **with size** **restored with description** *description*.

**Explanation:** The object *object name* was restored successfully.

**System action:**

**User response:** None.

---

**BKI0057I**     **Time:** *current time* **Object:** *object name* **with:** *size saved with description* *description*.

**Explanation:** The object *object name* was saved successfully.

**System action:**

**User response:** None.

---

**BKI0058I**     **Time:** *current time* **Object:** *object name* **with:** *size restored with description* *description*.

**Explanation:** The object *object name* was restored successfully.

**System action:**

**User response:** None.

---

**BKI0059E**     **Data Protection for SAP cannot find the client options file.**

**Explanation:** Data Protection for SAP requires a client options file (<server>.opt) for each Tivoli Storage Manager server. The client options files must reside in the same directory. This directory must also contain a client options file 'dsm.opt'. The environment variable

DSMI\_CONFIG must specify this directory.

**System action:**

**User response:** Set the environment variable DSMI\_DIR to the Tivoli Storage Manager API installation path. Set the environment variable DSMI\_CONFIG to the path of the client options files.

---

**BKI0060E     The command parameter *parameter* is not recognized.**

**Explanation:** The command parameter *parameter* is not recognized.

**System action:**

**User response:** Check the command syntax and reenter the command.

---

**BKI0061W     The output file *file name* is not valid.**

**Explanation:** The specified output file *file name* could not be created.

**System action:**

**User response:** Check that *file name* is a valid file name on your operating system. Also check that the application has the appropriate permissions to create the file within the specified directory. The directory must already exist. If the file already exists, rename the old one.

---

**BKI0062E     The input file *filename* is not valid.**

**Explanation:** Unable to read the input file *file name* correctly.

**System action:**

**User response:** Check the path and name of the input file and the appropriate file access permission.

---

**BKI0063E     The UTL file *file name* is not valid.**

**Explanation:** Unable to read the input file *file name* correctly.

**System action:**

**User response:** Check the path and name of the profile (UTL file) and the appropriate file access permission.

---

**BKI0064E     The option '*option*' is not recognized.**

**Explanation:** The option is not recognized.

**System action:**

**User response:** Check the command syntax and reenter the command.

---

**BKI0065E     The argument is missing for option '*option*'.**

**Explanation:** Every option requires an argument.

**System action:**

**User response:** Check the command syntax and reenter the command.

---

**BKI0101I     Enter '*cont*' to continue or '*stop*' to cancel.**

**Explanation:** If Data Protection for SAP is running in unattended mode (profile keyword BATCH), it terminates the current run if operator intervention is required.

**System action:**

**User response:** Enter '*cont*' or '*stop*'.

---

**BKI0102I     Your reply: '*reply*'.**

**Explanation:** The reply you made is confirmed.

**System action:**

**User response:** None.

---

**BKI0311E     Request canceled by user**

**Explanation:** (Oracle) BACKINT terminated at user's request. (DB2) Program terminated at user's request.

**System action:**

**User response:** None.

---

**BKI0400I     TDP is waiting for BRBACKUP.**

**Explanation:** Data Protection for SAP is waiting for BRBACKUP to set a table space in the begin/end backup mode.

**System action:**

**User response:** None.

---

**BKI0405I     The TDP waited *num\_sec* seconds for BRBACKUP in util\_file\_online communication.**

**Explanation:** This message indicates the total amount of time DP for SAP waited for BRBACKUP to set a table space in "begin backup" or "end backup" mode. The wait time given is the sum of the wait times for all table spaces participating in the backup.

**System action:**

**User response:** None.

---

**BKI0410E**     **Cannot open or delete switch file '*file name*'. Check permissions.**

**Explanation:** If Data Protection for SAP is not installed correctly (as the root user on UNIX or Linux or administrator group on Windows) then Data Protection for SAP is not able to open the necessary communication file to the SAP system.

**System action:**

**User response:** Check the file permission.

---

**BKI0411E**     **Maximum time waiting for BRBACKUP expired.**

**Explanation:** The SAP database utilities did not respond within the expected time.

**System action:**

**User response:** Contact your SAP administrator.

---

**BKI0412E**     **BRBACKUP wasn't able to switch requested tablespace in BEGIN/END BACKUP mode.**

**Explanation:** Data Protection for SAP could not continue the backup, because BRBACKUP was not able to switch the requested table space in BEGIN or END backup mode. This is necessary for locking the table space.

**System action:**

**User response:** Contact your SAP administrator.

---

**BKI0413E**     **Error while requesting tablespace switch.**

**Explanation:** BRBACKUP could not switch table space in BEGIN or END backup mode.

**System action:** Contact your SAP administrator.

**User response:**

---

**BKI0414E**     **Error while requesting tablespace switch.**

**Explanation:** BRBACKUP reported an error while trying to switch a table space in BEGIN or END backup mode.

**System action:**

**User response:** Contact your SAP administrator.

---

**BKI0452E**     **This version of Data Protection for SAP(R) has expired.**

**Explanation:** This is a test version that has expired.

**System action:**

**User response:** Order a release version of the product

or contact your IBM/Tivoli Sales Representative.

---

**BKI0453W**     **This version of Data Protection for SAP(R) will expire in *number* days.**

**Explanation:** This is a test version with a time limit. It will expire in *number* days.

**System action:**

**User response:** Order a release version of the product or contact your IBM/Tivoli Sales Representative before the version expires.

---

**BKI0454I**     **\*\*\* This copy is NOT FOR RESALE. \*\*\***

**Explanation:** This version is not for resale.

**System action:**

**User response:** None.

---

**BKI0455E**     **License file *file name* does not exist.**

**Explanation:** The license file agent.lic was not found where expected.

**System action:**

**User response:** Make sure that the agent.lic file resides in the same directory as the init<SID>.utl file.

---

**BKI0456E**     **Unable to access license file *file name*.**

**Explanation:** The license file could not be accessed.

**System action:**

**User response:** Make sure the access permissions allow read/write access.

---

**BKI0457E**     **License file *file name* contains invalid data/checksum.**

**Explanation:** The license file is invalid.

**System action:**

**User response:** Make sure you have the right agent.lic file for the right platform installed. agent.lic files are platform dependent.

---

**BKI0458I**     **Fake-Mode is activated.**

**Explanation:** This message signals that the current operation is a simulated operation. Simulations can be performed using the Administration Assistant.

**System action:**

**User response:** None.

---



---

**BKI0460E**    **No mux file is found with the name**  
*name*

**Explanation:** A mux file is a data structure holding internal metadata needed for restore puposes. Each backup image gets a mux file assigned.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI0461I**    **Created tracefile 'tracefile' for process ID**  
*'id'*.

**Explanation:** The named trace file has been created.

**System action:**

**User response:** None.

---

**BKI1000E**    **syntax error in line** *line* : *'statement'*

**Explanation:** The statement *statement* in the Data Protection for SAP profile is unknown or incorrect.

**System action:**

**User response:** Correct the error and try again.

---

**BKI1001E**    **syntax error in file** *'file name'*. **Exiting**  
**program.**

**Explanation:** A syntax error has been detected in the file *file name* and the action has been halted.

**System action:**

**User response:** Correct the error(s) in the file *file name* and try again.

---

**BKI1002E**    **BACKUPIDPREFIX must be**  
*number\_of\_characters* **characters !**

**Explanation:** The length of BACKUPIDPREFIX must be *number\_of\_characters* characters.

**System action:**

**User response:** Enter a BACKUPIDPREFIX with the required length (for example, SAP\_\_\_\_, BKI\_\_\_\_).

---

**BKI1003W**    **Please set redolog\_copies to a number**  
**between** *min\_copies* **and** *max\_copies a.*  
**Now it is set to** *act\_copies*.

**Explanation:** Data Protection for SAP currently supports 1 to 9 copies of offline (redo) log files.

**System action:**

**User response:** Adapt the REDOLOG\_COPIES settings in the Data Protection for SAP profile.

---

**BKI1004W**    **You should specify the**  
**BACKUPIDPREFIX before the**  
**TRACEFILE statement. So that the**  
**BACKUPIDPREFIX can be used in the**  
**tracefilename.**

**Explanation:** The BACKUPIDPREFIX is used to build the Name of the tracefile. Therefore, BACKUPIDPREFIX must be specified before the TRACEFILE statement.

**System action:**

**User response:** Define a 6-character BACKUPIDPREFIX in the Data Protection for SAP profile (for example, SAP\_\_\_\_, BKI\_\_\_\_)

---

**BKI1006E**    **The SERVERNAME must be less than**  
*max\_char* **characters.**

**Explanation:** You have used a SERVERNAME with more than *max\_char* characters.

**System action:**

**User response:** Use a shorter SERVERNAME.

---

**BKI1007E**    **The NODENAME must be less than**  
*max\_char* **characters.**

**Explanation:** You have used a NODENAME with more than *max\_char* characters.

**System action:**

**User response:** Use a shorter NODENAME.

---

**BKI1008E**    **The MANAGEMENTCLASSNAME**  
**must be less than** *max\_char* **characters.**

**Explanation:** You have used a MANAGEMENTCLASSNAME with more than *max\_char* characters.

**System action:**

**User response:** Use a shorter MANAGEMENTCLASSNAME.

---

**BKI1009W**    **Please set MULTIPLEX to a number**  
**between** *1* **and** *max\_multiplex*. **Now it is**  
**set to** *act\_multiplex*.

**Explanation:** You have set multiplexing to an unsupported number. Data Protection for SAP now uses *act\_multiplex*.

**System action:**

**User response:** Set multiplexing to a number between 1 and *max\_multiplex*.

---



---

**BKI1011W**    **The sortfilename '*sortfile\_filename*' should be absolute!**

**Explanation:** None.

**System action:**

**User response:** Specify an absolute file name, for example /oracle/C21/dbs/sortfile.

---

**BKI1012E**    **Configfile not found or permission denied: '*configuration\_filename*'.**

**Explanation:** Data Protection for SAP is unable to read the file *configuration\_filename*.

**System action:**

**User response:** This error could have various reasons, try the following: 1. Check the path of the configuration file. The path must be specified in the profile (parameter CONFIG\_FILE). 2. Make sure that the file access permissions are set correctly.

---

**BKI1013E**    **Profile not found or permission denied: '*profile\_filename*'.**

**Explanation:** Data Protection for SAP is unable to open the profile *profile\_filename*.

**System action:**

**User response:** (Oracle) Ensure that the SAP backup profile init<SID>.sap contains a valid entry *util\_par\_file* for the Data Protection for SAP profile. (DB2) Ensure that the vendor environment file contains a valid entry XINT\_PROFILE. Furthermore, this file must be readable by Data Protection for SAP.

---

**BKI1016W**    **The tracefilename '*file name*' could not be opened for writing!**

**Explanation:** The trace file could not be opened for writing.

**System action:**

**User response:** Ensure that you have specified a correct path for the trace file.

---

**BKI1017E**    **The server *server* is already defined. Please use another name or specify TCP\_ADDRESS!**

**Explanation:** The named server was already defined in the profile. Server stanzas with identical names are not allowed unless the keyword TCP\_ADDRESS is defined in one of them.

**System action:**

**User response:** Update the profile accordingly and try again.

---

**BKI1019E**    **Failed to respond to a message received from XINT.**

**Explanation:** This messages indicates an internal error.

**System action:**

**User response:** Contact IBM Support.

---

**BKI1021E**    ***component\_name* terminates the connection due to a previous error.**

**Explanation:** A serious error has occurred which caused a shutdown of the communication channel between the *component\_name* process and this application.

**System action:**

**User response:** Look for previous error messages to detect the root cause of the problem.

---

**BKI1022E**    ***component\_name* terminates the connection due to a previous error.**

**Explanation:** See message BKI1021E.

**System action:**

**User response:** See message BKI1021E.

---

**BKI1023W**    **Could not establish connection to log server *log server name*.**

**Explanation:** In the Data Protection for SAP profile, log server *log server name* is specified (keyword LOG\_SERVER). However, a connection to the server named could not be established. No log records are sent to the log server.

**System action:**

**User response:** • Check that the server name defined with keyword LOG\_SERVER is spelled correctly in the Data Protection for SAP profile. • Make sure there is a SERVER section in the profile for the log server defined with keyword LOG\_SERVER. • Check the corresponding SERVER section and correct any setup problems. • Make sure that the log server named is available.

---

**BKI1024E**    **The file *filename* occurs twice in the <infile>**

**Explanation:** The named file name occurs multiple times in the infile which is a violation of the interface specification.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI1158T    Service *service* not completed**

**Explanation:**

**System action:**

**User response:**

---

**BKI1201E    There are no Tivoli Storage Manager-Servers available.**

**Explanation:** Data Protection for SAP cannot locate a Tivoli Storage Manager server. This may be due to a configuration problem or to a problem while trying to connect to the Tivoli Storage Manager server. Most probably, a preceding error message points to the cause of the problem.

**System action:**

**User response:** Look for and respond to preceding error messages. You may also want to check the Data Protection for SAP profile and the IBM Tivoli Storage Manager client options and client system options files.

---

**BKI1202E    You must specify either MAX\_SESSIONS, or all three specific session options (MAX\_ARCH\_SESSIONS, MAX\_BACK\_SESSIONS, and MAX\_RESTORE\_SESSIONS).**

**Explanation:** Information on the number of Tivoli Storage Manager client sessions to be established by Data Protection for SAP is missing from the profile.

**System action:**

**User response:** In the Data Protection for SAP profile, either specify a value for keyword MAX\_SESSIONS, or specify values for the three specific session parameters (MAX\_ARCH\_SESSIONS, MAX\_BACK\_SESSIONS, and MAX\_RESTORE\_SESSIONS). Any of the specific options can be specified in combination with MAX\_SESSIONS. Then, it overrides the value of MAX\_SESSIONS for the specific function.

---

**BKI1203E    Not enough sessions available (*sessions* required and *max\_sessions* available).**

**Explanation:** The sum of available sessions specified in the various server statements (parameter SESSIONS) does not cover the required number of sessions (parameter MAX\_SESSIONS).

**System action:**

**User response:** Change the values of the corresponding parameters in the Data Protection for SAP profile, so that the condition mentioned in the explanation is fulfilled.

---

**BKI1205E    If you want *num\_redo* REDOLOGCOPIES you should give me at least *num\_mc* different Archive Management Classes.**

**Explanation:** Data Protection for SAP requires that the number of different Archive Management Classes (parameter BRARCHIVEMGTCLASS) on the Tivoli Storage Manager servers is equal to or greater than the number of redo log or log file copies (parameter REDOLOG\_COPIES).

**System action:**

**User response:** Define at least as many different Archive Management Classes as log file copies requested.

---

**BKI1206W    If you want *num\_redo* REDOLOGCOPIES you should give me at least *num\_mc* different Archive Management Classes.**

**Explanation:** The message appears during a BRBACKUP run. A BRARCHIVE run afterwards would fail.

**System action:**

**User response:** Define at least as many different Archive Management Classes as log file copies requested.

---

**BKI1207E    Directory backup not supported.**

**Explanation:** This option is not yet available.

**System action:**

**User response:** Wait for a future release of Data Protection for SAP, which supports this option.

---

**BKI1208W    Retrying object: '*file name*'. Retry count: [*retry\_num*].**

**Explanation:** An error occurred while processing object *file name*. Data Protection for SAP is repeating the action according to the number of retries specified in the profile. *retry\_num* is the current retry count.

**System action:**

**User response:** If the problem persists check for and respond to preceding error messages.

---

**BKI1209E    Object not found or not accessible: '*objectname*'.**

**Explanation:** The object cannot be located.

**System action:**

**User response:** The backup integrity is affected. Contact SAP or IBM Support.

---

**BKI1210E**    **Input file not found or not accessible:**  
*'file name'.*

**Explanation:** Data Protection for SAP cannot locate the temporary file named. This file contains the list of Oracle objects to be backed up or restored. It is passed to DP for SAP by one of the BR\*Tools utilities.

**System action:**

**User response:** Ensure that you have the correct version of BR\*Tools installed. For details, check with the release notes (RELNOTE).

---

**BKI1211E**    **There is something wrong with your**  
**CONFIG\_FILE** *'file name'.*

**Explanation:** There is a problem with your Data Protection for SAP configuration file setup.

**System action:**

**User response:** Check the file permission and the file name specified in the Data Protection for SAP profile keyword CONFIG\_FILE.

---

**BKI1212W**    **The file 'file name' is not found in the**  
**manual sorting file.**

**Explanation:** The file you want to back up was not found in the manual sorting file.

**System action:**

**User response:** Check and correct the manual sorting file so that it contains all the files you are backing up.

---

**BKI1214E**    **TSM Error:** *error text*

**Explanation:** The specified TSM error occurred.

**System action:**

**User response:** Check *error text* and correct the problem. For further information you may want to refer to IBM Tivoli Storage Manager Messages, SC32-9090.

---

**BKI1215I**    **Average transmission rate was** *gb per*  
*hour GB/h (mb per second MB/sec).*

**Explanation:** The average transmission rate is displayed.

**System action:**

**User response:** None.

---

**BKI1216E**    **There are no backup management**  
**classes available.**

**Explanation:** The BRBACKUPMGTCLASSES you have specified in your init<SID>.utl file are not correct.

**System action:**

**User response:** Check the management classes on the TSM server and specify correct ones.

---

**BKI1217E**    **There are no archive management**  
**classes available.**

**Explanation:** The BRARCHIVEMGTCLASSES you have specified in your init<SID>.utl file are not correct.

**System action:**

**User response:** Check the management classes on the TSM server and specify correct ones.

---

**BKI1218E**    **Environment variable TEMP not set**

**Explanation:** The required environment setup is incomplete.

**System action:**

**User response:** Set the environment variable TEMP and try again.

---

**BKI1222E**    **Version mismatch error. Please check**  
**setup** (*version\_1:version\_2*).

**Explanation:** Different components with inconsistent versions are used.

**System action:**

**User response:** Check your setup or contact IBM Support.

---

**BKI1223W**    **A Problem occurred during send of**  
**performance data to the Administration**  
**Assistant.**

**Explanation:** There was a problem sending the performance data to the Administration Assistant over the network.

**System action:**

**User response:** Check your setup or contact IBM Support.

---

**BKI1224W**    **Unable to initialize connection to**  
**Administration Assistant.**

**Explanation:** No operational data could be sent to the Administration Assistant during database backup or restore.

**System action:**

**User response:** Check the logs for further information and try again.

---

**BKI1227I**      **Average compression factor was *number*.**

**Explanation:** The data transferred had been compressed by the factor *number*.

**System action:**

**User response:** None.

---

**BKI1228W**      **Server *server name* can not be used with password access method GENERATE in this environment. The process is running with user ID *userid* but the effective user ID is *userid effective*.**

**Explanation:** The user ID and the effective user ID of the process are different. In order to utilize the password access method GENERATE the IDs must be equal.

**System action:**

**User response:** Under UNIX and Linux, change the value of the "PASSWORDACCESS" parameter in file dsm.sys from 'generate' to 'prompt'.. Under Windows, change the value of the "PASSWORDACCESS" parameter in file *server name*.opt from 'generate' to 'prompt'.

Reset the node's password on the Tivoli Storage Manager server.

In an Oracle environment, run

backint -f password

In a DB2 environment run

backom -c password

This will prompt you for the TSM password and then will encrypt it in the Data Protection for SAP configfile. This step needs to be repeated each time your password expires.

---

**BKI1229E**      **Value for parameter BUFFSIZE (actual *cur\_number*, maximum *max\_number*) is too large for BUFFCOPY mode PREVENT.**

**Explanation:** To utilize the BUFFCOPY mode PREVENT the value for the parameter BUFFSIZE must not be larger than *max\_number*.

**System action:**

**User response:** In the Data Protection for SAP profile, specify a BUFFSIZE less or equal to *max\_number* if you need to prevent copying buffers when passing data between Tivoli Storage Manager components. If you need large buffers you can set option BUFFCOPY to SIMPLE or AUTO. As a consequence, buffers are copied when data is passed between Tivoli Storage Manager components.

---

**BKI1230E**      **The following file was not processed: *path*.**

**Explanation:** The operation was terminated due to a previous error. As a consequence, the file named could not be processed. The cause of the error should be found in an earlier message.

**System action:**

**User response:** Check for and respond to preceding error messages.

---

**BKI1231E**      **Maximum number of retries for file *filename* exceeded.**

**Explanation:** The number of retries configured in the profile keyword 'FILE\_RETRIES' for the named file were reached.

**System action:**

**User response:** Check the logs for further information about the root cause of the retries. Resolve these issues and perform the operation again.

---

**BKI1505E**      **Operation aborted because a different operation by this database client is already running.**

**Explanation:** Different concurrent operations of the same type were started for the same database. This is not supported. The current operation is aborted. This message is also issued when a cooperative operation of two or more participating partitions was started, but the profile settings used for the various partitions do not match.

**System action:**

**User response:** Wait until the currently running operation has ended and try again. Make sure that multiple operations are not started concurrently for a database. If this is a cooperative operation with two or more participating partitions, check that the profile settings of the various partitions (for example, DEVICE\_TYPE, MAX\_VERSIONS, etc.) do not differ. If they do, fix the profile settings, cancel the current operation, and start the operation again. Also, investigate the possibility of sharing the same profile among all partitions.

---

**BKI1506E**      **Error: '*description*' on host '*hostname*' while executing command '*command*'.**

**Explanation:** The system tried to execute the command cited. During execution, an error occurred. The output received from the command shell is listed following the message.

**System action:**

**User response:** Determine the cause of the problem from the command and the output listed in the

message, and resolve the problem.

---

**BKI1507E**    **The process needs to run with root authority.**

**Explanation:** The current process requires root authority.

**System action:**

**User response:** Start the process under an account with root authority.

---

**BKI1508E**    **The service *service\_name* has terminated due to a previous error. Please check all logs for additional information.**

**Explanation:** The cited service is no longer available.

**System action:**

**User response:** Check the appropriate logs for the cause of its termination.

---

**BKI1509E**    **Authentication failure. The password specified is not authorized for accessing *component*.**

**Explanation:** To access the named component, a password is required. However, the password provided could not be verified.

**System action:**

**User response:** Make sure that the password files used by the different components of the system match.

---

**BKI1510I**    **New connection received.**

**Explanation:** The server received a new connection request.

**System action:**

**User response:** None.

---

**BKI1512E**    **An error occurred during shutdown: *Error information***

**Explanation:** During shutdown of the component, a problem occurred. The error information is given.

**System action:**

**User response:** Resolve the problem indicated by the error information.

---

**BKI1513I**    **\*\*\*\*> Database client connected:  
instance *instance*, database  
database\_namepartition\_numbernodename**

**Explanation:** This message follows a message BKI1511I and indicates the connection of one of the database clients taking part in the operation. A database client is an instance of the snapshot backup

library representing a single partition of the database.

**System action:**

**User response:** None.

---

**BKI1514I**    **\*\*\*\*> Device client connected.**

**Explanation:** This message follows a message BKI1511I and indicates the connection of one of the device clients taking part in the operation. A device client is an instance of the device agent for the storage device.

**System action:**

**User response:** None.

---

**BKI1515I**    **Client is logging to *file\_name***

**Explanation:** The client's log messages are written to the indicated file.

**System action:**

**User response:** None.

---

**BKI1516I**    **Deleting container *container*.**

**Explanation:**

**System action:**

**User response:**

---

**BKI1517I**    **Deleting target data container defined by *container\_description*.**

**Explanation:** The data in the container indicated is removed.

**System action:**

**User response:** None.

---

**BKI1518E**    **Internal error: The system is trying to use the same device agent, although the synchronization mode is not PARALLEL.**

**Explanation:** The system has been told to use the same device agent for multiple database clients, but the database indicated serial synchronization mode. This setup is not supported.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI1519E**    **A failure occurred during initialization of one or more of the nodes participating in this operation. Please check the logs for more information.**

**Explanation:** Some problem occurred during the initialization of a new operation. The problem may be



with any component required for this operation.

**System action:**

**User response:** Check the acsd log file for messages BKI1515I to determine the log file names of the participating agents. Check the log files of each component for the cause of the problem.

---

**BKI1520E**     **Volume *volume\_name* is shared across partitions. Volume sharing is not allowed.**

**Explanation:** At least two partitions own data residing on the volume indicated. This setup is not supported.

**System action:**

**User response:** With the current disk layout of the database, the requested function cannot be used. If you want to use the function, change the disk layout of the database so that each data volume is dedicated to a partition.

---

**BKI1521I**     **Retaining *number* backups**

**Explanation:** When enforcing profile parameter MAX\_VERSIONS, the indicated number of backups is kept.

**System action:**

**User response:** None.

---

**BKI1522E**     **The requested meta-information (subject="*description*") is not available.**

**Explanation:** Some meta-information about each backup is stored in the repository. An error occurred when trying to retrieve part of this information.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI1523W**     **Warning: The following containers were reused without being explicitly released: *description***

**Explanation:** The containers defined by the description are used by the current backup. They were used before by a different backup. This message is expected in SAN environments where data containers are usually kept until they are reused. In this case, this message does not indicate a problem.

**System action:**

**User response:** None.

---

**BKI1525E**     **The process *service\_name* is in an inconsistent state. Please check for previous errors and restart the process afterwards.**

**Explanation:** The process indicated cannot continue with inconsistent data.

**System action:**

**User response:** Check the logs for messages pointing to the cause of the inconsistency. After resolving any problems, restart the process.

---

**BKI1526E**     **A configuration file (profile) must be provided.**

**Explanation:** An operation was started without providing a profile.

**System action:**

**User response:** Check the user documentation on how to provide the profile to the current process. Start the process again using a valid configuration file.

---

**BKI1529E**     **The device '*device\_type*' is not supported by the wizard.**

**Explanation:** The device type represents a certain type of storage device. While using the setup wizard, a device type was entered that is not supported by the current version of the wizard.

**System action:**

**User response:** Refer to your user documentation for a list of the device types that are supported by default. Specify one of the supported types.

---

**BKI1530E**     **Failed to launch the device agent for *device\_type*. Please consult your user documentation to make sure that all requirements for the specified device are met.**

**Explanation:** The system was unable to launch the appropriate device agent for the type indicated because some of its requirements are not met.

**System action:**

**User response:** Refer to your user documentation and make sure that the system is set up correctly for the specified device type.

---

**BKI1534E**     **Unexpected version *actual\_version* of the repository located at *path*. Expected version: *supported\_version***

**Explanation:** The server located the repository in the path indicated. However, the version of the repository located on disk does not match the current version of the server.

**System action:**

**User response:** Make sure to use the correct instance of the server. Ensure that the path of the repository was specified correctly. Refer to the release notes for a list of possible incompatibilities.

---

**BKI1535E**     **Unexpected characteristics (bitwidth=*bitwidth repository*) of the repository located at *path*. Expected bitwidth: *bitwidth expected***

**Explanation:** The repository located in the path indicated was saved to disk using a bit width different from the bit width the server is using to load the repository.

**System action:**

**User response:** Make sure to use the correct instance of the server. Ensure that the path of the repository was specified correctly. Refer to the release notes for a list of possible incompatibilities.

---

**BKI1536E**     **The repository located at *path* is not valid.**

**Explanation:** A repository could not be found at the location indicated by *path*.

**System action:**

**User response:** Ensure that the path of the repository was specified correctly. Do not edit any files in the repository *path*.

---

**BKI1537E**     **The repository located at *path* was written with an incompatible protocol (*protocol\_version incompatible*). Expected protocol: *protocol\_version expected***

**Explanation:** The repository found at the location indicated was written to disk using the protocol version named. However, the server currently supports the expected protocol version.

**System action:**

**User response:** Ensure that the path of the repository was specified correctly. Do not edit any files in the repository path.

---

**BKI1538E**     **Unexpected repository type. The path '*path*' does not point to a repository of type "*protocol\_type*".**

**Explanation:** The repository located in the path indicated was written to disk using a protocol different from the protocol supported by the server process.

**System action:**

**User response:** Make sure to use the correct instance of the server. Ensure that the path of the repository was

specified correctly. Refer to the release notes for a list of possible incompatibilities.

---

**BKI1539E**     **Root privileges required. Could not change user ID to root.**

**Explanation:** The requested operation requires root privileges. However, the process could not acquire them.

**System action:**

**User response:** Make sure the appropriate privileges (s-bit) are granted to the executable.

---

**BKI1540E**     ***/etc/inittab* entries are limited to 127 characters. Please consult your user documentation for information on manually completing the installation procedure.**

**Explanation:** The command line generated by the setup function exceeds 127 characters. This situation requires user intervention. The setup function did not update */etc/inittab*.

**System action:**

**User response:** Refer to your user documentation for information on what entries to add to */etc/inittab*.

---

**BKI1541E**     ***/etc/inittab* was not updated because some of the processes have apparently been added. Please re-run the setup after calling the setup script with option '-a disable' if you want to change to a standard setup.**

**Explanation:** During the automatic setup, entries for this product were detected in */etc/inittab*. This is an indication that the product was not previously uninstalled.

**System action:**

**User response:** Run the setup with option '-a disable' and then start the installation process again. If the entries in */etc/inittab* should be retained, refer to your user documentation for information on how to complete the installation manually.

---

**BKI1542E**     **Failed to uninstall because some of the processes to be uninstalled are still listed in */etc/inittab*. Please re-run the setup after stopping the component by calling the setup script with option '-a stop'.**

**Explanation:** Before uninstalling the product, the affected processes must be stopped. This is done by running the setup script with the option '-a stop', which will remove the entries from */etc/inittab* and stop the processes.

**System action:**

**User response:** Refer to your user documentation for information on the uninstall process. Run the setup with the option '-a stop' and then continue uninstalling.

---

**BKI1543E**     **The component is still referenced within the /etc/inittab. In order to terminate the component re-run the setup script with option '-a stop'.**

**Explanation:** The setup utility detected that the product is still active in the system. Apparently, its entries in /etc/inittab are not yet removed.

**System action:**

**User response:** Call this process again with the option '-f stop'.

---

**BKI1544E**     **New entries cannot be added to /etc/inittab because it already contains too many entries starting with 'ac'. Please refer your user documentation for a manual setup of this package.**

**Explanation:** During setup, an unusually high number of entries beginning with 'ac' were detected in /etc/inittab. /etc/inittab was not modified.

**System action:**

**User response:** Determine if these entries are expected, or if they were added due to a problem. If these entries are required, refer to your user documentation for information on how to complete the installation manually.

---

**BKI1545E**     *oldprod* **is currently running.**

**Explanation:** This failure happens during (de)installation and indicates that not all TSM for ACS components could be stopped.

**System action:**

**User response:** Check that no backup or restore is currently running and retry the operation. If you have customized the process of starting TSM for ACS, it might be necessary to manually stop it by undoing those customization steps.

---

**BKI1546E**     *IBM Tivoli Storage Manager for Advanced Copy Services* **was not started.**

**Explanation:** This failure happens during installation and indicates that not all TSM for ACS components could be started successfully.

**System action:**

**User response:** Check that all TSM for ACS components have the appropriate access rights and

retry the operation. Contact the support function if the operation continues to fail.

---

**BKI1547E**     **Failed to remove the data associated with the deleted backup *backup\_id*.**

**Explanation:** The backup named was deleted. However, its data could not be removed from the repository and from the storage device.

**System action:**

**User response:** Look for a previous message pointing to the cause of the problem. Resolve any problems indicated there. Once the cause of this problem is resolved, the daemon will take care of the deleted backups eventually.

---

**BKI1548E**     **Failed to monitor the data associated with the deleted backup *backup\_id*.**

**Explanation:** A background daemon is supposed to monitor the states of backups in order to determine if data needs to be deleted from the storage device. However, the monitor was not able to access the appropriate data.

**System action:**

**User response:** Look for a previous message pointing to the cause of the problem. Resolve any problems indicated there. Once the cause of this problem is resolved the daemon will take care of the deleted backups eventually.

---

**BKI1549E**     **Failed to load *component\_name***

**Explanation:** The system was unable to load the named component of the product.

**System action:**

**User response:** Contact IBM Support.

---

**BKI1550W**     **Unable to perform required operations for container '*container*' for time.**

**Explanation:** Any operation for the named container is suspended for the named period of time due to it is locked.

**System action:**

**User response:** As soon as the container was unlocked, retry the required operation.

---

**BKI1553I**     *Component\_name* **is logging to path**

**Explanation:** The file denoted is the log file of the named component.

**System action:**

**User response:** If you need to check the log of the



indicated component, look for this message to identify the log file to examine.

---

**BKI1554W**    **The agent '*component\_name*' terminated with exit code *number*.**

**Explanation:** The process denoted ended with the given exit code.

**System action:**

**User response:** Check the agent's log for any messages pointing to a problem. Resolve any problem indicated.

---

**BKI1555I**    **Profile successfully created.**

**Explanation:** The profile wizard created a new profile.

**System action:**

**User response:** The setup script recognizes components being restarted so that the new settings become active..

---

**BKI1556E**    **Some data of backup *backup\_id* are unavailable. It is impossible to restore the data requested.**

**Explanation:** The system detected that some of the data originally contained in the backup is no longer available. The occurrence of this message depends on the type of storage device employed. For example, if an earlier backup data was restored from an N-Series device, some data of a later backup will be destroyed.

**System action:**

**User response:** The backup is no longer complete and cannot be used for the requested operation. Try the operation with a different backup.

---

**BKI1557I**    **Device client is logging to *path***

**Explanation:** The device agent's log messages are written to the file named.

**System action:**

**User response:** None.

---

**BKI1558E**    **There are no mount agents registered for participant(s) *participant\_list***

**Explanation:** During a snapshot backup run, TSM for ACS detected that for the listed participant(s) no TSM for ACS device agent was started with the 'force mount' (-F) option. Typically, a participant corresponds to a DB2 partition. The current snapshot backup run will be deleted.

**System action:**

**User response:** Make sure that for each participant (DB2 partition) a TSM for ACS device agent is started

with the mount force option (-M) on the offload system.

---

**BKI1559E**    **Failed to verify consistency of DataContainer (*data\_container*)**

**Explanation:** During a snapshot backup run, TSM for ACS detected that the listed data container (typically an AIX® volume group or an N Series volume) could not be imported/mounted successfully on the offload system. The current snapshot backup run will be deleted.

**System action:**

**User response:** Check the TSM for ACS device agent log/trace file for errors and restart the snapshot backup after the problem is corrected.

---

**BKI1560E**    **Not all file systems have been validated by the mount agents!**

**Explanation:** During a snapshot backup run, TSM for ACS detected that not all file systems could be mounted successfully on the offload system. The current snapshot backup run will be deleted.

**System action:**

**User response:** Check the TSM for ACS device agent log/trace file for errors and restart the snapshot backup after the problem is corrected.

---

**BKI1561E**    **Profile name *profile\_name* does not point to a file.**

**Explanation:** The profile specification should be a fully qualified filename. Otherwise, it is assumed to be relative to the current directory of the command that issues the message, which may not be the desired directory.

**System action:**

**User response:** Correct the name.

---

**BKI1562E**    **Deleting the backup as requested is impossible while any part of it is mounted.**

**Explanation:** A request was sent to delete a backup. However, some parts of the backup were still mounted. Presumably, a restore operation or an off-loaded tape backup is pending or in progress. Please note that an offloaded tape backup requires the snapshot backups of all partitions of the database.

**System action:**

**User response:** Wait until the operation in progress has ended, then issue the delete request again.

---

**BKI1563I**    The snapshot backup defined by timestamp *timestamp* for instance *instance*, database *database\_name*, and partition *partition\_number* cannot be restored.

**Explanation:** This message appears when backups are queried for a restore. It indicates that a snapshot backup was encountered that is not in a restorable state. For example, snapshot backups created with a FLASHCOPY\_TYPE of NOCOPY are not restorable. When queried for restore, unrestorable snapshot backups are not returned to the caller and therefore cannot be selected for restore.

**System action:**

**User response:** None.

---

**BKI1564W**    Backup *id* is marked for deletion. You need to unmount before it can be physically deleted.

**Explanation:** A snapshot backup with the named *id* can only be deleted if all of its assigned file systems are unmounted successfully.

**System action:**

**User response:** Issue the offload agent with the command '-f unmount'. After all resources are freed, the deletion of the snapshot backup will be started.

---

**BKI1568I**    Removing backup *backup\_id* from the repository because it has not been found on the storage device during reconciliation.

**Explanation:** During reconciliation the backup with *id backup\_id* has not been found on the storage device. Therefore it is deleted from the repository to keep the repository and the valid backups on the storage in sync.

**System action:**

**User response:** None.

---

**BKI1569I**    Updating backup *backup\_id* in the repository because some data was not found on the storage device during reconciliation.

**Explanation:** Backup data with the identifier *backup\_id* is no longer available on the storage device. Depending on storage device settings, the space from older backups might be reused to create new backups. This information is updated in the IBM Tivoli Storage FlashCopy Manager repository.

**System action:** Processing continues.

**User response:** None.

---

**BKI1570W**    The following container could not be deleted from the storage box during reconciliation: *volume\_name*.

**Explanation:** The volume *volume\_name* could not be deleted from the storage box. It is not needed anymore because there is no corresponding backup in the repository.

**System action:**

**User response:** Ignore the warning or try to delete the volume from the storage device manually.

---

**BKI1571W**    The specified value for '*recon\_interval*' is 0. Be aware that every time a background monitor is started a reconcile will be scheduled so that other background operations will never be scheduled. This should be used for testing purposes only.

**Explanation:** If RECON\_INTERVAL is 0 every time a background monitor is started it will start reconciliation. Other background operations as deletion or monitoring will never be scheduled.

**System action:**

**User response:** Change RECON\_INTERVAL to a value greater than 0 if you want to avoid this behavior.

---

**BKI1572I**    Starting reconciliation for device class '*device\_class\_name*'

**Explanation:** The reconciliation will be started for the device class *device\_class\_name* of the profile.

**System action:**

**User response:** None.

---

**BKI1573I**    The container '*volume\_name*' has been successfully deleted from the storage box. It didn't belong to any backup in the repository.

**Explanation:** The volume *volume\_name* has been successfully deleted from the storage box during reconciliation because it didn't belong to any backup in the repository.

**System action:**

**User response:** None.

---

**BKI1580E**    Specifying a target volume serial number is mandatory for parameter 'TARGET\_VOLUME'.

**Explanation:** The parameter 'TARGET\_VOLUME' expects three values being defined. If these are not present this error occurs.

**System action:**

**User response:** Specify the following values for parameter 'TARGET\_VOLUME': <target volume serial number> <source volume serial number> <source volume size>. Only the first value is mandatory. If source volume information is omitted, dashes must be entered in both fields as placeholders. Examples:  
 TARGET\_VOLUME 401FCA90 40EFCA90 Size=2.0\_GB  
 TARGET\_VOLUME 401FCA909 - -

---

**BKI1581E     Error while parsing parameter TARGET\_VOLUME *target volume param* in volumes file: the parameter TARGET\_VOLUME allows at most three parameters.**

**Explanation:** The parameter 'TARGET\_VOLUME' expects three values being defined. If there are more this error occurs.

**System action:**

**User response:** Correct the specified values for parameter 'TARGET\_VOLUME' according to this pattern: <target volume serial number> <source volume serial number> <source volume size>. Only the first value is mandatory. If source volume information is omitted, dashes must be entered in both fields as placeholders. Examples: TARGET\_VOLUME 401FCA90 40EFCA90 Size=2.0\_GB TARGET\_VOLUME 401FCA909 - -

---

**BKI1582I     The target set *target set* will be used for the current backup.**

**Explanation:** IBM Tivoli Storage FlashCopy Manager allows to define target sets by a target set definition file (SVC and DS8000®) or by a certain naming convention by that IBM Tivoli Storage FlashCopy Manager determines the name of the target from the name of the source volume and the name of the target set to be used for the current operation (SVC only). This message reflects which target set is applied for the current snapshot backup based on the given conditions.

**System action:**

**User response:** Specify means of target set selection by the profile parameter 'TARGET\_SETS' and a target set definition file.

---

**BKI1583W     Backup agents were requesting incompatible Tivoli Storage Manager backup options. The composed states are: '*states*'.**

**Explanation:** A backup of a partitioned database was attempted. Offloaded backups to Tivoli Storage Manager use options that are different from options used with the partition backup. However, Tivoli Storage Manager backup options for all partitions should be identical. This can occur when different device classes are used to back up different partitions, and those device classes are associated with different

Tivoli Storage Manager backup options. The product automatically determines the correct Tivoli Storage Manager backup options for this operation to prevent a failure.

**System action:** The operation continues with warning.

**User response:** Update the configuration so that all partitions use the same Tivoli Storage Manager backup options during future operations.

---

**BKI1586E     Not enough sessions available.**

**Explanation:** The sum of available sessions specified in the various server statements does not cover the required number of sessions.

**System action:** Processing ends.

**User response:** Change and adapt the values of the corresponding parameters in the IBM Tivoli Storage Manager for Enterprise Resource Planning profile.

---

**BKI2000I     Successfully connected to *component\_name* on port *portnumber*.**

**Explanation:** One of the Data Protection for SAP modules BACKINT or the backup library libtdp\_r3 initiated a successful connection to the background process *component\_name* on port *portnumber*.

**System action:**

**User response:** None.

---

**BKI2001E     Socket error while connecting to *component\_name* at host: *reason*.**

**Explanation:** The background process *component\_name* is not running.

**System action:**

**User response:** Start *component\_name* manually and try again.

---

**BKI2003I     File *file\_name* BID deleted.**

**Explanation:** The file *file\_name* with the backup ID <BID> was deleted from the Tivoli Storage Manager.

**System action:**

**User response:** None.

---

**BKI2004E     Socket error while listen to port *port number* - error: *error text*.**

**Explanation:** The application was unable to listen to the port specified.

**System action:** Processing stops.

**User response:** Check if the process was already started. Do not start a second instance of the same process. Check if the port specified is in use by another

application and specify a different port number.

---

**BKI2007E    Unknown Port:** *port*

**Explanation:** The port specified for communication between *component\_name* and BACKINT or the backup library is unknown.

**System action:**

**User response:** Check the port value specified when *component\_name* was started. Additionally, check the environment variable PROLE\_PORT for the BACKINT environment. These two values must match.

---

**BKI2008E    Unable to connect to** *component\_name*.

**Explanation:** Internal error.

**System action:**

**User response:** Contact IBM Support.

---

**BKI2009I    Deleting backup** *version\_number* **and all older backups.**

**Explanation:** All full database backups and their corresponding log file backups will be deleted from Tivoli Storage Manager storage, if their version number is less than or equal to *version\_number*.

**System action:**

**User response:** None.

---

**BKI2010E    Error occurred processing FRONTEND.**

**Explanation:** An error occurred during the frontend processing.

**System action:**

**User response:** Check the frontend script/program and the settings in the Data Protection for SAP profile (keyword FRONTEND) and try again.

---

**BKI2011E    Error occurred processing BACKEND.**

**Explanation:** An error occurred during the backend processing.

**System action:**

**User response:** Check the backend script/program and the settings in the Data Protection for SAP profile (keyword BACKEND) and try again.

---

**BKI2012E    Passwords do not match. Try again.**

**Explanation:** The first and second password you entered do not match.

**System action:**

**User response:** Enter the password correctly.

---

**BKI2013I    Starting FRONTEND program.**

**Explanation:** The frontend program is executing.

**System action:**

**User response:** None.

---

**BKI2014I    FRONTEND program finished.**

**Explanation:** The frontend program is finished.

**System action:**

**User response:** None.

---

**BKI2015I    Starting BACKEND program.**

**Explanation:** The backend program is executing.

**System action:**

**User response:** None.

---

**BKI2016I    BACKEND program finished.**

**Explanation:** The backend program is finished.

**System action:**

**User response:** None.

---

**BKI2017I    Blocksize is set to** *num\_bytes* **bytes**

**Explanation:** The operational blocksize is *num\_bytes* bytes.

**System action:**

**User response:** None.

---

**BKI2022E    Unable to change mode of file** *file name: description*

**Explanation:** Unable to change mode of file *file name. description* may contain the system error text.

**System action:**

**User response:** Check the *description*. If the error persists, contact your service representative.

---

**BKI2024E    Error in connection to** *component\_name*.

**Explanation:** The connection to *component\_name* terminated unexpectedly. This message might be displayed due to previous errors or after an unexpected termination of the *component\_name* process.

**System action:**

**User response:** Check for other error messages and restart *component\_name* if necessary. Try again. If the problem persists, contact IBM Support.

---

**BKI2025E**     Failed to respond to a message received from *component\_name*.

**Explanation:** This is an internal error.

**System action:**

**User response:** Contact IBM Support.

---

**BKI2026E**     Unexpected exception in handler: *handler*.

**Explanation:**

**System action:** This is an internal error.

**User response:** Contact IBM Support.

---

**BKI2027I**     Using TSM-API version *your API version* (compiled with *compiled with version*).

**Explanation:** Version information about the TSM-API.

**System action:**

**User response:** None.

---

**BKI2028W**     Unable to terminate a session due to the following error:*session*.

**Explanation:** This is an internal error during cleanup that has no effect on the success of the service.

**System action:**

**User response:** None.

---

**BKI2029E**     Could not instantiate the buffer allocator because of the following incompatibility issue: *expression*.

**Explanation:** This is an internal error.

**System action:**

**User response:** Contact IBM Support.

---

**BKI2031E**     A buffer allocator cannot simultaneously satisfy all of the following properties:*list of properties*

**Explanation:** This is an internal error.

**System action:**

**User response:** Contact IBM Support.

---

**BKI2033E**     Cannot instantiate allocator of type *allocator type* with the following additional properties:*list of properties*

**Explanation:** This is an internal error.

**System action:**

**User response:** Contact IBM Support.

---

---

**BKI2913I**     The version delete setting is configured to retain *number* backup generations. Checking for expired backups.

**Explanation:** The profile parameter MAX\_VERSIONS is configured to retain *number* backup generations. Data Protection for SAP is checking if surplus backups exist.

**System action:** Processing continues.

**User response:** None.

---

**BKI4000W**     The attributes of file '*file name*' cannot be restored. Reason: **errno**(*error\_num*) *error\_desc*.

**Explanation:** The file *file name* was restored successfully but one or more file attributes (permission, ownership, date/time) of the file *file name* cannot be restored correctly.

**System action:**

**User response:** Check the error number *error\_num* and the error description *error\_desc* to avoid this problem in the future. An initial solution could be to set the appropriate correct permission for the file *file name* manually.

---

**BKI4001E**     File '*file name*' cannot be created. Reason: **errno**(*error\_num*) *error\_desc*

**Explanation:** The file *file name* to be restored could not be created/written. It is possible, that you do not have the appropriate rights for writing the file *file name* to the destination path.

**System action:**

**User response:** Check the error number *error\_num* and the error description *error\_desc* to avoid this problem in the future. Furthermore, check the write permission of the user who started the restore.

---

**BKI4002E**     Error during write of file '*file\_name*'. Reason: **errno**(*error\_num*) *error\_desc*

**Explanation:** An error occurs during the restore process of the file *file name*.

**System action:**

**User response:** Check the error number *error\_num* and the error description *error\_desc* to avoid this problem in the future.

---

**BKI4005E**     Error allocating memory block for file *file name*. BLOCKSIZE may be too large.

**Explanation:** Unable to request new memory blocks during the backup of file *file name*.

**System action:**

**User response:** Verify that you have set a valid value

---



for BLOCKSIZE. If you are not sure what value is valid, comment it out so the default value is used. Furthermore, you can check if you have enough RAM available with your machine. Also, check the memory usage during backup. It may be necessary to stop another application, increase memory, or change the configuration.

---

**BKI4007E**     **File '*filename*' cannot be read Reason: *errno*(*error\_num*) *error description***

**Explanation:** Data could not be read due to some system error. Check *error description* for further information. If this error recurs, this might indicate some hardware problems.

**System action:**

**User response:** Contact your system administrator.

---

**BKI4008E**     **File '*filename*' cannot be opened. Reason: *errno*(*error\_num*) *error\_text***

**Explanation:** Could not open the file *file name* due to some system specific problems.

**System action:**

**User response:** Contact your system administrator.

---

**BKI4009E**     **Not enough space to write File '*filename*'. Possible reasons: disk full or ulimit exceeded.**

**Explanation:** The system rejected a request to write data into file *file name*. The storage media might not have enough free space to keep the file or the system rejected writing the file due to administrative resource constraints such as ulimits.

**System action:**

**User response:** Contact your system administrator.

---

**BKI4010E**     **SAP requires the file *filename* to be a regular file.**

**Explanation:** To be able to support SAP environments the named file has to be a regular file.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI4011W**     **The backup device type (*filetype backup devicetype backup devsubtype*) differs from the restore device type (*filetype restore descr1 descr2*) for *name*.**

**Explanation:** A mismatch between the device types during backup and restore was detected.

**System action:**

**User response:** Check the logs for further information

---

**BKI4012E**     **Unexpected EOF for file '*filename*' after reading *number* Bytes.**

**Explanation:** The end of file was reached unexpectedly.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI4013I**     **CreateFile() with dwFlagsAndAttributes=*'attribute'*.**

**Explanation:** A file with the nmed attribute was created.

**System action:**

**User response:** None.

---

**BKI4014E**     **File '*filename*' cannot be accessed. Reason: *errno*<(number) *errmsg***

**Explanation:** A named file could not be accessed either for reading or writing.

**System action:**

**User response:** Check the file permissions and if necessary adjust them accordingly. Try again.

---

**BKI5000E**     **Tivoli Storage Manager Error:*error\_message***

**Explanation:** During a connection of Data Protection for SAP to Tivoli Storage Manager server, a Tivoli Storage Manager error *error\_message* occurred.

**System action:**

**User response:** Use the Tivoli Storage Manager Messages guide and correct the Tivoli Storage Manager server error. Try your last action again.

---

**BKI5001E**     **Tivoli Storage Manager Error:*error\_message***

**Explanation:** During a connection of Data Protection for SAP to Tivoli Storage Manager server, a Tivoli Storage Manager error *error\_message* occurred.

**System action:**

**User response:** Use the Tivoli Storage Manager Messages guide and correct the Tivoli Storage Manager server error. Try your last action again.

---

**BKI5002E**    **Tivoli Storage Manager Error during inquire of mux file**  
*backup\_id:error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5003E**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5004W**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5005E**    **Tivoli Storage Manager Error.**

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5006E**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5007E**    **Tivoli Storage Manager Error.**

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5008E**    **Tivoli Storage Manager Error.**

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5009E**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5010E**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5011E**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5012E**    **Cannot open Tivoli Storage Manager API message text file. Check if DSMI\_DIR is set correctly. Current value of DSMI\_DIR is: *dsmi\_dir***

**Explanation:** The Tivoli Storage Manager API is unable to open the message text file. This file is required in order to issue messages. By default, it should reside in the Tivoli Storage Manager API installation directory. If the Tivoli Storage Manager API is installed in another location, use the DSMI\_DIR the environment variable to specify the correct location.

**System action:** Processing stops.

**User response:** Verify that the DSMI\_DIR environment variable points to the correct location and that the Tivoli Storage Manager API installation is complete.

---

**BKI5013E**    **Value for *name* is too long. Current value: *value***

**Explanation:** The value of the environment variable *name* has too many digits.

**System action:**

**User response:** Check if the variable is set correctly.

---

**BKI5014E**    **Tivoli Storage Manager**  
**Error:***error\_message*

**Explanation:** See BKI5001E.

**System action:**

**User response:** See BKI5001E.

---

**BKI5015W**    **Data *description*, file name could not be restored, because it was backed up with a newer version (*objInf\_support* information).**

**Explanation:** The TSM server hosts backups (data description) which were made with a new version of

backint or backom, which ignores this data in further processing.

**System action:**

**User response:** Upgrade the product.

---

**BKI5016I**     **Time:** *current time* **New TSM session created: MGMNT-CLASS:**  
*management\_class*, **TSM-Server:**  
*server\_name*, **type:** *session\_type*

**Explanation:** A new session to TSM server *server\_name* has been established at *current\_time*. Data will be stored in management class *management\_class*.

**System action:**

**User response:** None.

---

**BKI5017E**     **Internal Tivoli Storage Manager Error: Transaction succeeded although it was expected to fail.**

**Explanation:** An internal Tivoli Storage Manager error occurred.

**System action:**

**User response:** Retry the action. If the error occurs again contact IBM Support.

---

**BKI5018E**     **The requested buffer has a size (*current\_size* bytes) that is smaller than requested *requested\_size*.**

**Explanation:** The request for a new buffer was successful. The buffer, however, does not have the requested size.

**System action:**

**User response:** Check if the system is running low on memory and retry the action. If the error occurs again contact IBM Support.

---

**BKI5019E**     **Error during delete of object *filename:object***

**Explanation:** A named file could not be deleted from a TSM server.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI5020E**     **Error while deleting objects *:objects***

**Explanation:** One or more named objects could not be deleted from a TSM server.

**System action:**

**User response:** Check the logs for further information.

If the problem cannot be resolved contact your IBM support personnel.

---

**BKI5021W**     **No data is deleted on the TSM Server because the environment variable "XINT\_FUNCTION\_DELETE" is set to "DISABLE".**

**Explanation:** The delete function was disabled temporarily.

**System action:**

**User response:** If the delete function has to be re-activated, unset the environment variable XINT\_FUNCTION\_DELETE and try again.

---

**BKI5022W**     **Error during version delete. Not all backups that should have been expired could be removed.**

**Explanation:** The database backup finished successfully. Nevertheless, the deletion of expired backup sets failed.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI6910E**     **Could not set user ID to *userid*. Error *error – errmsg*.**

**Explanation:** The user id of the device agent process could not be switched internally to the named user id.

**System action:**

**User response:** Check the permissions of the binary and try again.

---

**BKI6911E**     **The effective user ID *userid* of the process could not be set to the user *userid*. Error *error – error\_msg*. Check that the device agent executable has the s-bit set.**

**Explanation:** Due to insufficient permissions of the device agent executable, the user id of the device agent process could not be switched internally to the named user id.

**System action:**

**User response:** Check that the device agent binary has the s-bit set and try again.

---

**BKI7048I**     **The default port to connect to *server\_name* will be used.**

**Explanation:** A server port for the connection to the named server was not explicitly specified. Therefore, the default port is used.



**System action:**

**User response:** Make sure the named server is listening to the default port. In the case of connection failures, specify the server port in the profile.

---

**BKI7049I      The default for environment variable PROLE\_PORT will be used.**

**Explanation:** The port for the internal communication of Data Protection for SAP is set during installation. The message indicates that this port is being used.

**System action:**

**User response:** None.

---

**BKI7051E      The environment variable XINT\_PROFILE is not set. It must be set and contain the fully qualified path to the \*.utl file to be used.**

**Explanation:** The way Data Protection for SAP works is specified in a profile. When called, Data Protection for SAP looks for the environment variable XINT\_PROFILE which must contain the fully qualified path to the profile.

**System action:**

**User response:** Check the environment for XINT\_PROFILE of the user who started Data Protection for SAP.

---

**BKI7053E      Service setup failed due to previous error.**

**Explanation:** Initialization of the product failed due to previous errors.

**System action:**

**User response:** Check the product log file for further detailed messages.

---

**BKI7055E      Service open failed due to previous error in data mover.**

**Explanation:** The command could not be started due to previous errors.

**System action:**

**User response:** Check the product log file for further detailed messages.

---

**BKI7056E      Service open failed because configured TSM server could not be accessed.**

**Explanation:** The command could not be started because the TSM server defined in the profile could not be accessed.

**System action:**

**User response:** Check the product log file for further detailed messages.

---

**BKI7057E      Service open failed because all configured sessions are currently in use.**

**Explanation:** The command could not be started because all configured sessions in the profile are currently in use.

**System action:**

**User response:** With Oracle RMAN the number of channels configured either in SAP profile or the RMAN script must be less or equal to the maximum number of allowed sessions (MAX\_SESSIONS). If multiple servers are used see the User's Guide for further details. Also check the Data Protection for SAP log file for further detailed messages.

---

**BKI7058E      Service open failed because more than one file was found with the same name.**

**Explanation:** The command could not be started because two or more files with the same name were found.

**System action:**

**User response:** Check the product log file for further detailed messages.

---

**BKI7059E      Service open failed because the file was not found.**

**Explanation:** The command could not be started because a file specified was not found.

**System action:**

**User response:** Check the product log file for further detailed messages.

---

**BKI7060I      Data Protection for SAP(R)  
version.release.modification.level (build  
build\_number)beta build\_date session:  
process id**

**Explanation:** This message is to verify the version of the shared library used for backup. On UNIX and Linux systems this message will be written multiple times into the log per backup depending on the RMAN setup. On Windows, it is written just once.

**System action:**

**User response:** None, if the right version is used. If the version within the log does not match the installed version, see 'RMAN Problem Resolution' in the Data Protection for SAP(R) Installation and User's Guide.

---

**BKI7061I Continuing to restore from next data copy.**

**Explanation:** A saved data copy could not be restored from the primary data source. Due to multiple data copies available, the unit will switch to the next available data copy and continue to restore.

**System action:**

**User response:** Although the data could be restored it should be investigated, why one of the data sources were not available.

---

**BKI7301W Data exchange file from Data Protection for Snapshot Devices for SAP, filename does not exist.**

**Explanation:** The referenced file is expected by Data Protection for SAP(R) to exist and to contain information from Data Protection for Snapshot Devices for SAP(R) about the actual snapshot operation.

**System action:**

**User response:** The absences of this files indicates a problem during the snapshot operation performed by Data Protection for Snapshot Devices for SAP(R). Please check the logs of DP for Snapshot Devices for SAP(R) to determine the cause of the problem and try again.

---

**BKI7303W Profiles for Data Protection for Snapshot Devices for SAP are different. backup: file name backup restore: file name restore**

**Explanation:** During backup the profile used by DP for Snapshot Devices can be determined automatically. For restore and inquire operations the profile for DP for Snapshot Devices must be specified in the profile using the parameter FCS\_FILE. For restore DP for Snapshot Devices must use the same profile as for backup.

**System action:**

**User response:** Correct the entry for the FCS\_FILE parameter in the profile (init<SID>.utl).

---

**BKI7304I Performing DISK ONLY backup.**

**Explanation:** The data for this backup is stored on snapshot-type disks only and will not be sent to TSM.

**System action:**

**User response:** None.

---

**BKI7305E Error during call to Data Protection for Snapshot Devices for SAP: error message**

**Explanation:** DP for Snapshot Devices could not process the requested operation successfully. Processing may not stop at this point. Depending on the type of request (backup to both TSM and snapshot disks or to snapshot disks only, restore of data which is available

in both modes) there are possibilities to recover from this error and continue operation.

**System action:**

**User response:** Use the information from *error message* and the output of DP for Snapshot Devices to determine the cause of the problem and try again.

---

**BKI7307W Data Protection for Snapshot Devices for SAP reported an error during a snapshot-type operation.Do you want to continue backing up to TSM?**

**Explanation:** The backup was requested to be stored on both the TSM server and the snapshot-type disks. The snapshot operation has failed. Backup can continue to save data on the TSM server only.

**System action:**

**User response:** Enter 'stop' if you want to solve the cause of this error and to try again. Enter 'cont' if you want to save this data on the TSM server only.

---

**BKI7308E DISK ONLY backup has failed.**

**Explanation:** The current backup tried to store data on snapshot-type disks only and did not finish successfully.

**System action:**

**User response:** Check the output from DP for Snapshot Devices prior to this error message to detect the root cause of this error and try again.

---

**BKI7309W Data Protection for Snapshot Devices for SAP reported an error during a snapshot-type operation.Do you want to continue restoring from TSM?**

**Explanation:** The data you wanted to be restored is located on the TSM server and on snapshot-type disks. The snapshot operation has failed. The process can continue to restore data from the TSM server.

**System action:**

**User response:** Enter 'stop' if you want to resolve the cause of this error and to try again. Enter 'cont' if you want to restore from the TSM server.

---

**BKI7310W Data Protection for Snapshot Devices for SAP reported an error during a snapshot-type operation.CAUTION: Not all filesystems are available.Do you want to retry the operation?**

**Explanation:** In contrast to message BKI7309W not all file systems are mounted. In this case it is not possible to continue the restore from the TSM server.

**System action:**

**User response:** Enter 'stop' if you want to terminate this restore process. Enter 'cont' if you want to retry the snapshot process.

---

**BKI7311I**     **Profile used by Data Protection for Snapshot Devices for SAP:** *profile name*.

**Explanation:** The message shows the name of the profile used by DP for Snapshot Devices.

**System action:**

**User response:** None.

---

**BKI7312W**     **Profile for Data Protection for Snapshot Devices for SAP not specified in profile. For restore this must be specified.**

**Explanation:** For restore and inquire operation in conjunction with DP for Snapshot Devices this parameter is mandatory. Without this parameter a restore using DP for Snapshot Devices is not possible and Data Protection for SAP will continue to inquire/restore from the TSM server only.

**System action:**

**User response:** Add the parameter FCS\_FILE to the Data Protection for SAP profile.

---

**BKI7313W**     **Inquire results from Data Protection for Snapshot Devices for SAP are not available.**

**Explanation:** Data Protection for SAP queried Data Protection for Snapshot Devices for SAP for existing snapshot backups. This query has failed.

**System action:** Processing continues.

**User response:** If Data Protection for SAP is running in unattended mode (profile parameter BATCH set to YES), it immediately restores from tape when data is available. Otherwise you are prompted whether to restore from tape.

---

**BKI7314E**     **The data you want to restore is not available on the TSM server.**

**Explanation:** Data Protection for SAP(R) was unable to retrieve information from DP for Snapshot Devices about available backups on snapshot-type disks. This message may be issued in consequence of message BKI7305E.

**System action:**

**User response:** Check the output from DP for Snapshot Devices to determine the cause of the error and try again.

---

**BKI7315W**     **The copy process for the files you want to restore is not finished. If you continue the operation, the files will be restored from the TSM server.**

**Explanation:** The snapshot process running in the background has not finished moving the files from the source to the target volumes. A snapshot restore of these volumes is currently not possible.

**System action:**

**User response:** After that message you will be asked if you want to continue or stop this operation. If you want to wait until the snapshot process has finished choose 'stop' and the restore attempt will terminate. If you choose 'continue' an attempt is made to restore the data from TSM if available.

---

**BKI7316I**     **The following backup types for the BACKUPID *backup id* have been found:**  
– TSM – Snapshot

**Explanation:** The backup for the backup ID *Backup ID* was stored on the Tivoli Storage Manager as well as on snapshot-type disks. For restore both data sources can be used.

**System action:**

**User response:** None.

---

**BKI7318E**     **The Data Protection for Snapshot Devices for SAP profile *file name* is not valid.**

**Explanation:** The profile for DP for Snapshot Devices specified in init<SID>.utl could not be accessed.

**System action:**

**User response:** Check the file name and the permissions for this file and try again.

---

**BKI7319I**     **Start TSM restore.**

**Explanation:** The restore uses data from Tivoli Storage Manager.

**System action:**

**User response:** None.

---

**BKI7320I**     **Start restore from snapshot.**

**Explanation:** The restore is using data from snapshot-type disks.

**System action:**

**User response:** None.

---

---

**BKI7321E**    **The Data Protection for Snapshot Devices for SAP profile *file name* found in parameter FCS\_FILE of the DP for SAP(R) profile can not be used if you need to restore this backup.**

**Explanation:** In the Data Protection for SAP profile the FCS\_FILE parameter is set, however the Data Protection for Snapshot Devices for SAP profile specified either • is not a Data Protection for Snapshot Devices for SAP profile • does not point to the same Data Protection for Snapshot Devices for SAP configuration file which was used by the preceding Data Protection for Snapshot Devices for SAP splitint operation.

**System action:**

**User response:** You need • to correct the FCS\_FILE parameter in order to ensure that a valid Data Protection for Snapshot Devices for SAP profile is used. For example, select the same file Data Protection for Snapshot Devices for SAP used when running its snapshot function in the preceding brbackup task. The file names are documented in preceding message BKI7303W) • to ensure that all SAP profiles used by Data Protection for Snapshot Devices for SAP point to the same the same control file. The control file is defined by the value of the IDS\_CONTROL\_FILE parameter in the Data Protection for Snapshot Devices for SAP profile.

---

**BKI7322E**    **Request for a partial restore or restore from snapshot with "brrestore -m all" is not supported. In case of brrestore attempt rerun with -m full.**

**Explanation:** DP for Snapshot Devices can only restore the whole content of a backup and not only a subset of a disk backup as requested. Most likely this is caused by running brrestore with the option '-m all'.

**System action:**

**User response:** Restore complete backups only: run brrestore with the option '-m full'.

---

**BKI7323W**    **Request for a partial restore or restore from snapshot with "brrestore -m all" is not supported. If you want to restore the backup: - with FlashCopy restore enter stop and rerun brrestore with "-m full" - from TSM enter cont**

**Explanation:** This message has the same reason as message BKI7322E, but in this case the data is also available from the TSM server. So you may continue to restore this data without the snapshot functionality from TSM server.

**System action:**

**User response:** Enter 'stop' if you want to try to restore a different set of files. Enter 'cont' if you want to

restore this data from TSM server.

---

**BKI7324E**    **Restore of multiple backup ID's in one run from a snapshot is not possible.**

**Explanation:** The data requested for this restore belongs to multiple backup IDs.

**System action:**

**User response:** Make sure the files you want to restore belong to one single backup ID and try again.

---

**BKI7325E**    **Redirected restore from a snapshot is not possible.**

**Explanation:** A restore of a snapshot to a different location on the same host was attempted. This is not supported.

**System action:** Processing stops.

**User response:** Either restore the snapshot to the original location or restore from tape (if available).

---

**BKI7535W**    **Error while executing command. Reason: *errno(error number) explanation***

**Explanation:** A command could not be executed successfully.

**System action:**

**User response:** Check the explanation *explanation* and the preceding output of the command execution to detect the cause of the error.

---

**BKI7536I**    **Execute command '*command name*':**

**Explanation:** The command *command name* is executed by the application. This message is followed by the output of the command executed.

**System action:**

**User response:** None.

---

**BKI7540E**    **None of the INCREMENTAL\_LEVEL parameters specified in the profile can be used for the current operation.**

**Explanation:** The application of a 'INCREMENTAL\_LEVEL' entry within the profile can be restricted by a number of optional conditions, e.g. by time frame. If this error occurs none of the INCREMENTAL\_LEVEL entries within the profile matches the conditions currently given (current time, given weekday).

**System action:**

**User response:** Check the conditions specified for the 'INCREMENTAL\_LEVEL' entries within your profile. It needs to be ensured that exactly one entry matches any imaginable condition at any time.

---

**BKI7541E**    **The environment variable ORACLE\_SID must be set.**

**Explanation:** The current operation requires the environment of the Oracle database instance owner. Among other settings this includes the environment variable ORACLE\_SID.

**System action:** Operation aborts.

**User response:** Ensure the operation is performed by the Oracle database instance owner and verify that the environment for this user is set correctly. Among other environment variables that are required to run an Oracle database the variable ORACLE\_SID must be set.

---

**BKI7542I**    **A level *number* incremental backup using Oracle RMAN has started.**

**Explanation:** Oracle RMAN will be started to perform an incremental backup with the specified level.

**System action:** Operation continues.

**User response:** None.

---

**BKI7543I**    **Recreate database control file '*file\_name*'.**

**Explanation:** CURRENTLY UNUSED

**System action:** Operation continues.

**User response:** None.

---

**BKI7544E**    **The copy of the database control file '*file\_name*' was not found.**

**Explanation:** The current operation does expect a copy of the database controlfile to be at the specified location. This file is created by IBM Tivoli Storage FlashCopy Manager before Data Protection for SAP is started. But the file was not found.

**System action:** Operation aborts.

**User response:** Verify that the target directory does exist and is not full. Make sure that the directory is not cleaned automatically at the time of the operation.

---

**BKI7545I**    **Please enter the password for the user '*user\_name*' to connect against the recovery catalog database '*catalog\_database\_identifier*'.**

**Explanation:** Oracle RMAN stores information about all backups in a recovery catalog database. The identifier to connect against this database and the user id for this connection must be specified in the profile. The password for this connection must be specified after this prompt. It is then stored encrypted in the configuration file.

**System action:** Wait for user response.

**User response:** Enter the correct password.

---

**BKI7546E**    **Failed to verify the password. This is the output of the failed command:**

**Explanation:** The verification of the password entered has failed. This may be due to missconfiguration of the connection to the recovery catalog database or just by mistyping the password.

**System action:** Operation aborts.

**User response:** Check the further output to find the root cause. Retry the operation and enter the correct password.

---

**BKI7547E**    **Failed to verify the password. This is the output of the failed command:**

**Explanation:**

**System action:** Operation aborts.

**User response:**

---

**BKI7548E**    **Incremental backups require IBM Tivoli Storage FlashCopy Manager V3.1 or higher.**

**Explanation:** To perform offloaded backups using Oracle RMAN the offload operation must be performed using IBM Tivoli Storage FlashCopy Manager Version 3.1 or higher.

**System action:** Operation aborts.

**User response:** Ensure the required version of IBM Tivoli Storage FlashCopy Manager is installed and configured.

---

**BKI7549E**    **Database '*identifier*' is still running on host '*host\_name*'.**

**Explanation:** Another instance of the database was found to be running on the backup server where the offloaded backup should be performed.

**System action:** Operation aborts.

**User response:** Verify the configuration if the offloaded backup was attempted on the correct backup server. Check if the running database instance is a leftover from a previous backup attempt. In this case manually shutdown the instance and retry.

---

**BKI7550E**    **Operation was cancelled by Oracle RMAN. Please check the log for more details.**

**Explanation:** The operation was cancelled by Oracle RMAN.

**System action:** Operation aborts.

**User response:** Check the log output preceding this message for more details about the root cause of this error.



---

**BKI7551E      Failed to determine the database ID:**

**Explanation:** The process failed to determine the id of the database in the recovery catalog database.

**System action:** Operation aborts.

**User response:** Check the log output following this message for more details about the root cause of this error.

---

**BKI7552E      Failed to determine the SCN:**

**Explanation:** The process failed to determine the restore point in time in the recovery catalog database.

**System action:** Operation aborts.

**User response:** Check the log output following this message for more details about the root cause of this error.

---

**BKI7553I      Restoring files from backup with ID  
                 backup\_ID using Oracle RMAN ...**

**Explanation:** Oracle RMAN was started to restore all datafiles from the backup identified by *backup\_ID*.

**System action:** Operation continues.

**User response:** None.

---

**BKI7554E      The password to connect against the  
                 recovery catalog database 'identifier' is  
                 not set.**

**Explanation:** The password for the recovery catalog database was not found in the config file. It is stored in encrypted form in the config file. To store the password in the config file the function '<profile> \$ndash;f catalog\_password' must be used.

**System action:** Operation aborts.

**User response:** Run 'backint -p <profile> \$ndash;f catalog\_password' to store the password in the config file. Then retry the operation.

---

**BKI7555E      Files from different RMAN backups can  
                 not be restored within a single  
                 operation.**

**Explanation:** The current operation did attempt to restore files that have been stored by RMAN in different backups. This is not possible.

**System action:** Operation aborts.

**User response:** If files from different backups are required only the files from one backup can be restored at a time. Restore files from other backups in separate runs.

---

**BKI7556E      Restore of RMAN backups to a different  
                 location is not supported.**

**Explanation:** The current operation did attempt to restore database files to a location that is different from the location at backup time. This is not possible with backups that have been performed by Oracle RMAN from a flashcopy backup.

**System action:** Operation aborts.

**User response:** Restore the files to the same location from where they have been backed up. If you intend to create a clone of the database consider using the cloning functionality of \$longfcm;.

---

**BKI8201E      SIMULATION CANCELED BY  
                 PRODUCTION OPERATION!!!**

**Explanation:** The current operation was a simulation performed via the Administration Assistant. This simulation was canceled since a production operation (backup or restore) has been started.

**System action:**

**User response:** Check your backup schedule and run simulations only when no other operations are scheduled.

---

**BKI8300I      Function\_name returned with code  
                 return\_codereturn\_information.**

**Explanation:** This message indicates that the named API function ended with the specified return information.

**System action:**

**User response:** If the return information indicates a problem, look for preceding error messages in the log files. Otherwise, no response is required.

---

**BKI8301E      Product\_name: Exception caught in  
                 function function\_name. Error  
                 information: 'error\_information'**

**Explanation:** The named product implementing the DB2 Advanced Copy Services API received an error in the named API function. The error information is shown.

**System action:**

**User response:** Analyze the error information to find the cause of the problem. Resolve any problems indicated.

---

**BKI8302E      Product\_name: Exception caught in  
                 function function\_name. More  
                 information may be available in file  
                 log\_file\_name. Error information:  
                 'error\_information'**

**Explanation:** The named product implementing the DB2 Advanced Copy Services API received an error in the named API function. The error information is shown.

**System action:**

**User response:** Analyze the error information and the appropriate log files to find the cause of the problem. Resolve any problems indicated.

---

**BKI8303E**    **No *segment\_name* section found for the instance '*id*'.**

**Explanation:** An error was detected while parsing the named profile segment name section.

**System action:**

**User response:** Check the named profile segment name section and make appropriate adjustments.

---

**BKI8304W**    **The following error occurred while verifying the configuration for section '*section*':**

**Explanation:** An error was detected while parsing the named profile section.

**System action:**

**User response:** Check the named profile section and make appropriate adjustments.

---

**BKI8305E**    **Invalid option *option* in options string: '*options\_string*'.**

**Explanation:** An invalid option was found while parsing the options string specified in the 'db2' command.

**System action:**

**User response:** Correct the command and try again.

---

**BKI8306E**    **The keyword *keyword* is not allowed multiple times within the profile.**

**Explanation:** The keyword indicated was found more than once in the profile. However, this keyword must not be specified multiple times.

**System action:**

**User response:** Correct the profile.

---

**BKI8307E**    **The parameter *keyword* must be specified in the profile.**

**Explanation:** A required keyword is missing in the profile.

**System action:**

**User response:** Correct the profile.

---

**BKI8308E**    **Single argument required for parameter *keyword*.**

**Explanation:** The keyword indicated requires a single value. However, two or more values are found in the profile.

**System action:**

**User response:** Correct the profile.

---

**BKI8309E**    **Missing argument for parameter *keyword*.**

**Explanation:** In the profile, a value is missing for the named parameter.

**System action:**

**User response:** Correct the profile.

---

**BKI8310E**    **The keyword *keyword* is not allowed.**

**Explanation:** An invalid keyword was detected in the profile.

**System action:**

**User response:** Correct the profile.

---

**BKI8311E**    **For parameter *keyword*, both server and port must be specified.**

**Explanation:** A value of the named parameter is missing from the profile.

**System action:**

**User response:** As the value for the specified parameter, specify both server and port.

---

**BKI8312E**    **Error while parsing parameter *keyword*. In order for '*value1*' to be valid '*value2*' is required to be an existing directory.**

**Explanation:** Value1 was found to be an invalid value for the parameter named. For this specific parameter, a file name can be specified whose path must already exist in the system.

**System action:**

**User response:** Specify the name of a file in an existing path.

---

**BKI8313E**    ***Product\_name*: interface problem in function *function\_name*: Invalid value of parameter: *value***

**Explanation:** The named product detected an interface problem in the named API function. An invalid value was found for parameter in one of the API data structures.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8314E** *Product\_name:* interface problem in function *function\_name:* The session is already in use by a different operation.

**Explanation:** The named product detected an interface problem in the named API function. Either the session handle is used for various operations simultaneously, or the functions are called in an order not supported by the current version of the library.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8315E** *Function\_name:* The following object is not under the control of *product\_name:* *path*

**Explanation:** The named product implementing the DB2 Advanced Copy Services API detected a problem in the named API function: The path passed by the database is not under the control of the product.

**System action:**

**User response:** Make sure the database to be backed up meets the requirements for employing snapshot backups.

---

**BKI8316E** *Product\_name:* interface problem in function *function\_name:* Empty group list passed by DB2.

**Explanation:** The named product detected an interface problem in the named API function: The database passed a group list containing no elements.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8317W** *Product\_name:* Verification of configuration requested by user. No backup started.

**Explanation:** The user requested a verification of the configuration. The backup flow continued without errors up to the point where the snapshot would actually be done and was then cancelled. The system is ready for a snapshot backup, but no action beyond verification has been taken so far.

**System action:**

**User response:** None.

---

**BKI8318E** *Product\_name:* interface problem in function *function\_name:* Not enough space provided to write meta data.

**Explanation:**

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8319W** Error while deleting old versions.This problem does not affect the new backup.**Error information:** *'error\_information'*

**Explanation:** After a successful backup, the system tries to remove older backups of the database according to the value of profile parameter MAX\_VERSIONS. However, a problem occurred while trying to remove expired backups. The new backup is not affected by this problem.

**System action:**

**User response:** Check the appropriate log files in order to determine the cause of the problem. Resolve any problems indicated. In case the storage device runs out of storage because outdated snapshot backups have not been removed, delete these snapshot backups manually.

---

**BKI8320I** Deleting full backup *backup\_id* – *backup\_key*.

**Explanation:** After a successful backup, the system tries to remove older backups of the database according to the value of profile parameter MAX\_VERSIONS. During this process, the full backup listed is removed.

**System action:**

**User response:** None.

---

**BKI8321I** Deleting partial backup *backup\_id* for node *host:partition\_number*.

**Explanation:** After a successful backup, the system tries to remove older backups of the database according to the value of profile parameter MAX\_VERSIONS. During this process, the backup listed for the named partition is removed.

**System action:**

**User response:** None.

---

**BKI8322E** Interface problem: Current database partition *number* is not listed in the partition list.

**Explanation:** The partition list passed by the database does not contain the named partition participating in an operation.

**System action:**

**User response:** Contact your IBM support personnel.



---

**BKI8323E**    *Product\_name: Problem occurred while processing function\_name. Please check log file log\_file\_name for more information. Error information: 'error\_information'*

**Explanation:** The named product implementing the DB2 Advanced Copy Services API received an error in the named API function. The error information is shown.

**System action:**

**User response:** Analyze the error information and the appropriate log files to find the cause of the problem. Resolve any problems indicated.

---

**BKI8324E**    *Product\_name: Problem occurred while processing function\_name: Device agent returned code return\_information.*

**Explanation:** The named product implementing the DB2 Advanced Copy Services API received an error from the device agent in the named API function. The device agent's return information is given.

**System action:**

**User response:** Check the appropriate log files to find the cause of the problem. Resolve any problems indicated.

---

**BKI8325E**    **Failed to determine hostname.**

**Explanation:** The system was not able to determine the host name of the machine.

**System action:**

**User response:** Make sure the system setup allows for querying the hostname via system function gethostname(). Ensure that the requirements for doing snapshot backups are met.

---

**BKI8326E**    **Failed to create log directory path.**

**Explanation:** The log path indicated is not available in the system and could also not be created.

**System action:**

**User response:** Check the properties of the path indicated and make sure that its properties and the properties of the parent directory are set accordingly. Make sure all prerequisites for doing snapshot backups are met.

---

**BKI8327E**    **Invalid value specified for parameter keyword: value**

**Explanation:** A parameter value is not valid.

**System action:**

**User response:** In case the parameter was specified in

the profile correct the profile. In case the parameter was specified as a command line option, correct the entry.

---

**BKI8328E**    *Product\_name must be licensed to set parameter keyword to a value of value.*

**Explanation:** Selected functions are supported only with a full TSM license.

**System action:**

**User response:** If you need the functionality requested, obtain a full TSM license and install the license file. Otherwise, in case the parameter was specified in the profile, correct the profile or, in case the parameter was specified as a command line option, correct the entry.

---

**BKI8330E**    **Parameter keyword requires 'YES', 'NO', or AUTO.**

**Explanation:** For the named parameter, only the values, 'YES', 'NO' and 'AUTO' are accepted.

**System action:** Processing stops.

**User response:** Correct the profile or the call as appropriate.

---

**BKI8331E**    **The parameter keyword1 is not allowed if keyword2 is set to value.**

**Explanation:** There is a dependency between parameters *keyword1* and *keyword2*. If the latter is set to the value named, *keyword1* must not be specified.

**System action:**

**User response:** Correct the profile or the call as appropriate.

---

**BKI8332E**    **Failed to parse parameter keyword. File names in the profile need to be fully qualified.**

**Explanation:** As the value of the parameter indicated, a fully qualified file name is expected. However, the specified value is not a fully qualified path.

**System action:**

**User response:** Correct the profile or the call as appropriate.

---

**BKI8333E**    **In order to enable the parameter keyword1 you need to set keyword2 to value.**

**Explanation:** There is a dependency between parameters *keyword1* and *keyword2*. If *keyword1* is specified, *keyword2* must be given the specific value indicated in the message.

**System action:**

**User response:** Correct the profile or the call as appropriate.

---

**BKI8334E**     **Profile section *section\_name* is required for function *operation*.**

**Explanation:** The specified profile section is required in order to perform the requested operation. However, it is not included in the profile.

**System action:**

**User response:** Correct the profile.

---

**BKI8335E**     **Profile section *section\_name* refers to a value for *keyword* that differs from the one used at backup time. Expected value: *value*.**

**Explanation:** The profile parameter named must not change its value between backup and restore. However, in the named profile section, the parameter has a value different from the value it had at backup time. This value is given in the message.

**System action:**

**User response:** Correct the profile by setting the indicated parameter to the value indicated in the message.

---

**BKI8336E**     **Invalid value specified for option *keyword*: *value***

**Explanation:** An option value is not valid.

**System action:**

**User response:** Correct the call.

---

**BKI8337E**     **Error while parsing profile: Missing section name.**

**Explanation:** The profile is organized into named sections. However, a section name was not found.

**System action:**

**User response:** Check that the profile name is specified correctly or that the default profile is a valid profile. Refer to your user documentation for the syntax of the profile or use the profile wizard to create a new profile.

---

**BKI8338E**     **Error while parsing profile: Section *section\_name* is not allowed to be nested.**

**Explanation:** In the profile, the named section starts before the previous section ends. However, the section in question cannot be nested.

**System action:**

**User response:** Correct the profile.

---

**BKI8339E**     **Error while parsing profile: Profile section *section\_name* is not valid.**

**Explanation:** An invalid section name was found in the profile.

**System action:**

**User response:** Correct the profile.

---

**BKI8340E**     **Error while parsing profile: Profile section *section\_name* must not be specified more than once.**

**Explanation:** In the profile, only a single section with the name indicated can be specified. However, during parsing, a second occurrence was detected.

**System action:**

**User response:** Correct the profile.

---

**BKI8341E**     **Error while parsing profile: Profile section *section\_name* missing.**

**Explanation:** The required profile section indicated was not found in the profile.

**System action:**

**User response:** Correct the profile.

---

**BKI8343W**     **The profile parameter *profile parameter keyword* of device type *profile section* has changed its value from (original)*value1* to (current) *value2*.**

**Explanation:** The profile parameter named must not change its value between backup and restore. However, in the named profile section, the parameter has a new value *value2* different from the value *value1* it had at backup time. Both values are given in the message.

**System action:**

**User response:** Check the log file for problems that may result from the change of parameter values. If so, you may want to change the profile, restoring parameter *profile parameter keyword* to the value it had when creating the backup in order to perform a specific operation.

---

**BKI8344E**     **Path *path* is listed more than once for partitioning.**

**Explanation:** This is a DB2 – TSM interface problem.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8345E**     **Error while parsing parameter *keyword*.  
'path' is required to be *type\_information*.**

**Explanation:** A path of the type indicated in the message is expected as a value of the named parameter. However, the specified path was not found to be of the correct type.

**System action:**

**User response:** Correct the profile or the call as appropriate.

---

**BKI8349I**     **Deleting incomplete backup *backup\_id* –  
*backup\_key*.**

**Explanation:** After a successful backup, the system tries to remove older backups of the database according to the value of profile parameter MAX\_VERSIONS. During this process, the incomplete backup listed is removed. A backup becomes incomplete when parts of its data expire. This can happen when a backup that is marked 'destructively restorable' is restored.

**System action:**

**User response:** None.

---

**BKI8350E**     **Parameter *parameter* requires 'NO',  
'TSM', or 'DP4SAP'.**

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the named profile keyword and make appropriate adjustments.

---

**BKI8351E**     **Parameter *parameter* requires 'AUTO' or  
a decimal value.**

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the named profile keyword and make appropriate adjustments.

---

**BKI8352E**     **Parameter *parameter* requires a decimal  
value.**

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the named profile keyword and make appropriate adjustments.

---

**BKI8353E**     **Parameter *parameter* requires a value  
greater than '0'.**

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the named profile keyword and make appropriate adjustments.

---

**BKI8354E**     **Parameter *parameter* requires 'NO' or  
'YES'.**

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the named profile keyword and make appropriate adjustments.

---

**BKI8355E**     **Parameter *parameter* requires 'ALL' or a  
comma separated list of decimal values.**

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the profile keyword DBPARTITIONNUM and make appropriate adjustments.

---

**BKI8356E**     *product\_name*: interface problem in  
function *function*: Invalid call sequence;  
the library was not initialized.

**Explanation:** An invalid internal call sequence was detected during execution of a dedicated function.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI8357E**     *product\_name*: interface problem in  
function *function*: Invalid call sequence;  
the operation was not initialized.

**Explanation:** An invalid internal call sequence was detected during execution of a dedicated function.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

---

**BKI8358E**     **Parameter *name* requires 'ONLINE' or 'OFFLINE'.**

**Explanation:** The parameter *name* only accepts the values ONLINE or OFFLINE.

**System action:** Processing stops.

**User response:** Correct the value for the parameter specified in the profile.

---

**BKI8359E**     **The profile parameter *parameter* has the wrong value '*value profile*'. The expected value is '*value expected*'.**

**Explanation:** A profile parameter (or keyword) has a wrong value assigned. An alternate value is expected.

**System action:**

**User response:** Check the named TSM for ERP profile keyword and make appropriate adjustments.

---

**BKI8360E**     **Invalid *keyword* specified in the profile.**

**Explanation:** The value specified for a keyword is either wrong or is missing.

**System action:**

**User response:** Check the named TSM for ERP profile keyword and make appropriate adjustments.

---

**BKI8361E**     **Found non-database files on the file systems to backup. Please provide a negative list or clean your file systems.**

**Explanation:** Although the previously mentioned files were not requested to be part of the backup, they will be copied because they reside on a file system that will be backed up in its entirety. In order to allow backing up those files, they need to be added to a 'negative list' or the checking for such files needs to be disabled. Note that in case of a restore, these files would typically be restored, even if this were not desired.

**System action:**

**User response:** Edit the 'CLIENT' section of the profile. You can either set the parameter 'NEGATIVE\_LIST' to 'NO\_CHECK', to allow TSM for ACS to back up any file stored in a file system that will be backed up, or you can set the parameter 'NEGATIVE\_LIST' to point to a file (the 'negative list') that contains a list of all files and directories that are allowed to be processed during backup. Any directory you add to the 'negative list' is processed recursively. Note that there is only one 'negative list' for backup and restore. See BKI6969E for restore.

---

**BKI8362E**     **The trace parameters YES, NO, ON, and OFF cannot be set in conjunction with other trace parameters.**

**Explanation:** The values YES, NO, ON and OFF in conjunction with the TRACE keyword do not allow further trace flags to be set. They are mutually exclusive.

**System action:**

**User response:** Check the TSM for ERP profile keyword TRACE and make appropriate adjustments.

---

**BKI8363E**     **The value *value* is not a valid trace flag.**

**Explanation:** The value specified for the TRACE keyword is invalid.

**System action:**

**User response:** Check the TSM for ERP profile keyword TRACE and make appropriate adjustments.

---

**BKI8364E**     **Error while parsing parameter CONFIG\_FILE. Directory '*directory*' for node '*node*' does not exist.**

**Explanation:** The base directory containing the TSM for ERP configuration file(s) for any participating DB2 partition does not exist or cannot be accessed.

**System action:**

**User response:** Ensure that the directory denoting the base part of the CONFIG\_FILE value (left part of the %DB2NODE substring) exists and has the right permissions.

---

**BKI8365E**     **The server stanza for LOG\_SERVER '*server*' is missing.**

**Explanation:** A TSM server stanza used by the LOG\_SERVER keyword is missing either in the option file (dsm.opt) or in the system options file (dsm.sys).

**System action:**

**User response:** Either the value of the LOG\_SERVER keyword in the TSM for ERP profile has to be adjusted or an entry must be made or adjusted in the appropriate option file.

---

**BKI8366E**     **The values for parameter *parameter* are expected to be in the range 0 to 6.**

**Explanation:** The values of the keyword USE\_AT have to be in the range of 0 to 6.

**System action:**

**User response:** Check the TSM for ERP profile keyword USE\_AT and make appropriate adjustments.

---

**BKI8367E** You cannot freeze the filesystem without suspending or shutting down the database.

**Explanation:** Check the TSM for ERP profile keyword USE\_AT and make appropriate adjustments.

**System action:**

**User response:** Ensure either to suspend the database or to bring the database offline and try to freeze the filesystem again.

---

**BKI8368E** An invalid argument is specified for keyword *keyword*.

**Explanation:** The specified argument could not be converted into an equivalent integer value.

**System action:**

**User response:** Check the keyword argument and try again. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI8369E** Failed to execute *program*. Reason: *reason*.

**Explanation:** The execution of *program* failed.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI8370E** The profile option TARGET\_DATABASE\_SUSPEND=OFFLINE is not allowed for an online database backup.

**Explanation:** A snapshot backup of a database that was not suspended can only be done in offline mode.

**System action:**

**User response:** Start the BRBACKUP utility with the option '-t offline -d util\_vol' and try again.

---

**BKI8371E** The profile parameter NEGATIVE\_LIST is not allowed. Use BR-TOOLS option "-n" to specify the negative list.

**Explanation:** The negative list value has to be specified in the init<SID>.sap profile via the option 'util\_vol\_nlist = (nfile\_name1, nfile\_name2, ...) | no\_check'.

**System action:**

**User response:** Adjust the init<SID>.sap profile accordingly and try again.

---

**BKI8372E** The profile option TARGET\_DATABASE\_SUSPEND=YES requires a backup of type volume\_online. To solve this problem either the profile parameter TARGET\_DATABASE\_SUSPEND can be set to OFFLINE or NO or the brbackup backup device type should be set to util\_vol\_online. Keep in mind, when you set the profile parameter TARGET\_DATABASE\_SUSPEND to NO, the snapshot backup will be mounted on a backup system to verify its consistency. Make sure that a backup system is configured in that case.

**Explanation:** A snapshot backup of a database that was suspended can only be done in online mode.

**System action:**

**User response:** Start the BRBACKUP utility with the option '-t online -d util\_vol' and try again.

---

**BKI8373W** The operation will execute the force option (-F).

**Explanation:** Start the BRBACKUP utility with the option '-t online -d util\_vol' and try again.

**System action:**

**User response:** None.

---

**BKI8374W** Operation will terminate with error, because backint was executed with verify option (-V).

**Explanation:** The verify option simulates the requested option and does not create a valid backup or restore. In order to prevent the calling process from regarding the current operation as successful, the verify option will always yield a nonzero return code.

**System action:**

**User response:** Do not use the verify option if you want to create a backup or restore.

---

**BKI8375E** The value of the environment variable ORACLE\_SID is not allowed to have more than *number* digits.

**Explanation:** The length of the ORACLE\_SID value violates the defined range.

**System action:**

**User response:** Check the current value of ORACLE\_SID and if necessary, correct it according to the allowed length. Try again.

---



---

**BKI8376E**      **Verification of snapshot failed.**  
**Reason:***reason*

**Explanation:** The snapshot backup could not be verified successfully.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI8377E**      **Function *function* does not support multiple backup ids within a single operation.**

**Explanation:** TSM for ACS was requested to perform a volume *function* operation simultaneously for a set of objects that were backed up with multiple volume backup requests. This is currently not supported.

**System action:**

**User response:** Use backups stored on the TSM server to perform redirected restores or adjust the restore command.

---

**BKI8378E**      **Redirected restore of volume backups is not supported yet.**

**Explanation:** TSM for ACS does not support restores to an alternate data location. The restore always needs to be made to the original data location.

**System action:**

**User response:** Use backups stored on the TSM server to perform redirected restores.

---

**BKI8379E**      **Infile contains an invalid value: '*value*'**

**Explanation:** Each record of the infile has to start either with the string '#NULL' or with the backup Id.

**System action:**

**User response:** Ensure each record of the infile satisfies the requirements. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI8380E**      **The profile option TSM\_BACKUP=YES requires a snapshot backup of all partitions of the database.**

**Explanation:** The profile option TSM\_BACKUP=YES implies offloading a snapshot backup to TSM. If this option is specified, all database partitions have to be part of the snapshot backup.

**System action:**

**User response:** Specify the 'ALL DBPARTITIONNUMS' clause as part of the DB2 backup command and try again.

---

**BKI8381W**      **The following error occurred while verifying the configuration for server '*server\_name*' in the profile:**

**Explanation:** The profile section for server *server\_name* is not correct. The actual error is following this message.

**System action:**

**User response:** Adjust the profile and correct the error following this message.

---

**BKI8382E**      **The previous error(s) can be prevented by executing restore with negative list set to 'no\_check'.**

**Explanation:** An error occurred while inspecting file systems for files that should be excluded during the backup/restore operation. This error precedes the current message. Note that the file system inspection can be turned off by setting the parameter 'NEGATIVE\_LIST' to 'NO\_CHECK'.

**System action:**

**User response:** Resolve the root cause for this problem (previous error) or change the value of the parameter 'NEGATIVE\_LIST' to 'NO\_CHECK'. Depending on the application type, this can be accomplished by • (for DB2 and native Oracle) editing the TSM ACS profile and set the parameter 'NEGATIVE\_LIST' to 'no\_check' • (for SAP(R) for Oracle) editing the BR\*Tools profile \*.sap and set the parameter 'util\_vol\_nlist' to 'no\_check' Note that changing 'NEGATIVE\_LIST' to 'NO\_CHECK' implies that TSM for ACS would potentially backup all files residing on the requested file systems. This true even if they were not explicitly requested and resided on the requested file systems, and even if they were not explicitly requested during the backup. At restore time all of these objects would typically be restored.

---

**BKI8383E**      **BR-Tools are required to set the environment variable BI\_RUN for volume backups.**

**Explanation:** This is a unique ID from a BR\*Tools run (normally it is the name of the BR\*Tools log). If this variable is set then BACKINT recognizes that a call from BR\*Tools 7.10 or higher was triggered.

**System action:**

**User response:** Ensure that BR\*Tools 7.10 or later is used and rerun the operation.

---

**BKI8384E**      **Failed to determine the APPLICATION\_TYPE of the profile. Please invoke wizard with option -m <application type>.**

**Explanation:** 'acsd -f wizard' was invoked to modify an existing profile, and the APPLICATION\_TYPE could not be identified by inspecting this profile. This is

required in order to properly adjust the profile.

**System action:**

**User response:** Provide the application type when invoking the wizard with options 'acsd -f wizard -m <application type>'. The preferred method, however, is to call the setup script without options.

---

**BKI8385E** In order to create a new profile the wizard needs to be invoked with option -m <application type>.

**Explanation:** 'acsd -f wizard' was invoked to create a new profile. In this case it is required to specify the application type with option -m.

**System action:**

**User response:** Provide the application type when invoking the wizard by using the options 'acsd -f wizard -m <application type>'. Alternatively, you can use the database-specific version of the setup script (setup\_<database>.sh) to create a new profile and configure TSM for ACS.

---

**BKI8386E** Parameter *parameter name* requires a decimal value of 0 or greater.

**Explanation:** The value specified for the named parameter does not comply with the defined range of values.

**System action:**

**User response:** Check the named profile keyword and make appropriate adjustments.

---

**BKI8387W** Found additional files on the file systems to backup: *'filename'*

**Explanation:** Although the previously mentioned files were not requested to be part of the backup, they will be copied because they reside on a file system that will be backed up in its entirety.

**System action:**

**User response:** Edit the 'CLIENT' section of the profile. You can either set the parameter 'NEGATIVE\_LIST' to 'NO\_CHECK', to allow TSM for ACS to back up any file stored in a file system that will be backed up, or you can set the parameter 'NEGATIVE\_LIST' to point to a file (the 'negative list') that contains a list of all files and directories that are allowed to be processed during backup. Any directory you add to the 'negative list' is processed recursively. Note that there is only one 'negative list' for backup and restore. See BKI6969E for restore.

---

**BKI8388W** Additional files to restore were discovered on the file systems: *'file list'*

**Explanation:** A FlashCopy restore operation is performed with the profile parameter NEGATIVE\_LIST set to WARN. This operation replaces complete file systems with the content of the file systems at the time of backup. Each file that currently resides on the file systems to be restored (but were not part of the original backup) will be listed.

**System action:** Processing continues.

**User response:** None.

---

**BKI8389W** The following volume groups / file systems are currently not accessible: *volume groups/filesystems*

**Explanation:** The listed volume groups or file systems are not accessible. TSM ACS tries to verify that only database files reside in the volume groups or file systems that will be restored. But it was encountered that it was not possible to access the file systems (in the volume groups) to verify the database files because the file systems are not mounted or the volume groups are not imported, or both. This warning message is followed by message BKI9390E which gives more information.

**System action:**

**User response:** This is just a warning message. Follow the instructions of the user response of BKI8390E.

---

**BKI8390E** Failed to validate that only database files will be overwritten during restore, because some of the database filesystems are currently not accessible. Please import volume groups and/or mount all filesystems and restart the restore. If you cannot mount the filesystems as a consequence of a disaster or a failing previous restore operation, this error can be prevented by executing restore with negative list set to 'no\_check'.

**Explanation:** TSM ACS tries to verify that only database files reside in the volume groups / file systems that will be restored. But it was encountered that it was not possible to access the file systems (in the volume groups) to verify the database files because the file systems are not mounted and/or the volume groups are not imported.

**System action:**

**User response:** There are two options to solve this problem: 1. Import all volume groups and mount all file systems that contain database files. 2. If the first option is not possible as a consequence of a disaster or a failing previous restore operation, the negative list check cannot be performed at all and must be switched

to 'no\_check'. Depending on the application type, this can be accomplished by • (for DB2 and native Oracle) editing the TSM ACS profile and set the parameter 'NEGATIVE\_LIST' to 'no\_check' • (for SAP(R) for Oracle) editing the BR\*Tools profile \*.sap and set the parameter 'util\_vol\_nlist' to 'no\_check' Note that changing NEGATIVE\_LIST to NO\_CHECK implies that TSM for ACS would potentially backup all files residing on the requested file systems. This true even if they were not explicitly requested and resided on the requested file systems, and even if they were not explicitly requested during the backup. At restore time all of these objects would typically be restored.

---

**BKI8393E    The keyword TARGET\_SET requires a target set name as argument.**

**Explanation:** The keyword TARGET\_SET specified within the target set definition file needs to be followed by an argument defining the unique name of the target set.

**System action:** Please have a look into your target set file (.fct) and correct the entry accordingly.

**User response:**

---

**BKI8394E    Error while parsing TARGET\_SET target set name: Illegal number of arguments.**

**Explanation:** The keyword TARGET\_SET specified within the target set definition file needs to be followed by exactly one argument defining the unique name of the target set. No additional arguments are allowed.

**System action:**

**User response:** Please have a look into your target set file (.fct) and correct the entry accordingly.

---

**BKI8395E    Error while parsing TARGET\_SET target set name in volumes file: A multi partition backup requires the use of the keyword PARTITION in the target set section.**

**Explanation:** On a partitioned DB2 environment, the TARGET\_VOLUME entries within the target set definition file need to be enclosed by nested 'PARTITION' sections to determine for which partition this target volume(s) apply.

**System action:**

**User response:** Modify your target set definition file accordingly. Example: >>> TARGET\_SET SET\_1 >>>  
PARTITION NODE0000 TARGET\_VOLUME 40913158 -  
- TARGET\_VOLUME 40A13158 - - <<< >>>  
PARTITION NODE0001 TARGET\_VOLUME 40B13158 -  
- TARGET\_VOLUME 50913158 - - <<< <<<

---

**BKI8396E    Error while parsing TARGET\_SET target set name in volumes file: It is not allowed to specify a portion of a target set without keyword PARTITION, if this keyword is used for other portions in the same target set definition.**

**Explanation:** On a partitioned DB2 environment, the TARGET\_VOLUME entries within the target set definition file need to be enclosed by nested 'PARTITION' sections to determine for which partition this target volume(s) apply. As soon as embedded PARTITION subsections are used this means that ALL TARGET\_VOLUME entries need to be enclosed in PARTITION subsections.

**System action:**

**User response:** Correct your target set definition file accordingly.

---

**BKI8397E    Error while parsing TARGET\_SET target set name in volumes file: the parameter PARTITION requires exactly one parameter.**

**Explanation:** On a partitioned DB2 environment, the TARGET\_VOLUME entries within the target set definition file need to be enclosed by nested 'PARTITION' sections. The keyword 'PARTITION' needs to be followed by the unique name of the partition.

**System action:**

**User response:** Check whether all PARTITION subsections within your target set definition file have a unique partition name and correct the entries if necessary.

---

**BKI8398E    Error while parsing statement 'parameter name' in profile. The statement 'from or to' is required to be in the form hh:mm.**

**Explanation:** The optional conditions 'FROM' and 'TO' of the profile parameter 'parameter name' need to be followed by a time in the format 'hh:mm'.

**System action:**

**User response:** Please check your profile and correct the times accordingly.

---

**BKI8399E    The mode mode of parameter parameter is only supported for device\_type .**

**Explanation:** The requested mode mode is only supported for device\_type.

**System action:**

**User response:** Choose a supported mode..



---

**BKI8400E**     Error while parsing statement '*device class*' in profile. The statement *partition number* is required to be a number.

**Explanation:** The optional condition 'ON\_PARTITIONN' of the profile parameter 'DEVICE\_CLASS' needs to be followed by an integer number.

**System action:**

**User response:** Please check your profile and correct the 'ON\_PARTITIONN' entries accordingly.

---

**BKI8401E**     **DEVICE\_CLASS** *device class* was encountered multiple times within a single **DEVICE\_CLASS** statement.

**Explanation:** The parameter 'DEVICE\_CLASS' of the 'CLIENT' section allows to enlist multiple device classes which are then applied in a round robin process. However, each enlisted device class must not occur multiple times within the same enumeration.

**System action:**

**User response:** Please check your profile and correct the 'DEVICE\_CLASS' entries accordingly.

---

**BKI8402E**     No **DEVICE\_CLASS** found that can be used for the current operation.

**Explanation:** The application of a 'DEVICE\_CLASS' entry within the 'CLIENT' section of the profile can be restricted by a number of optional conditions, e.g. by time frame of DB2 partition number. If this error occurs none of the **DEVICE\_CLASS** entries within the profile matches the conditions currently given (current time, given partition, given weekday).

**System action:**

**User response:** Check the conditions specified for the 'DEVICE\_CLASS' entries within your profile. It needs to be ensured that exactly one entry matches any imaginable condition at any time.

---

**BKI8403E**     The keyword *keyword* was found multiple times without *qualifier* *qualifier*.

**Explanation:** If the parameter *keyword* is specified without additional qualifiers it is representing the global default. This global default can be defined only once. All other entries of parameter *keyword* need to be restricted by additional conditions.

**System action:**

**User response:** Please check your profile. The parameter *keyword* must not occur multiple times without additional conditions.

---

**BKI8404E**     The following statement contains incompatible options *statement*.

**Explanation:** The parameter *statement* within the 'CLIENT' section of the profile is followed by additional options which are contradictory to each other.

**System action:**

**User response:** Please check the parameter *statement* within your profile. For example, it is not possible to combine the options 'MANDATE' and 'TSM\_ONLY'.

---

**BKI8405E**     The following statement is missing mandatory options *statement*.

**Explanation:** The parameter *statement* within the 'CLIENT' section of the profile must be followed by an option defining the mode of how offline backups are handled.

**System action:**

**User response:** Please check the parameter *statement* within your profile. It needs to include either 'NO', 'YES', 'MANDATE', or 'TSM\_ONLY' as an option.

---

**BKI8406E**     There are two *object type* associated with partition *partition name*.

**Explanation:** The profile associates the same partition with multiple objects of *object type*. The name of the partition and of the *object type* are identified in this message.

**System action:** The operation fails.

**User response:** Update the profile so that each partition is listed as a member of only one object of *object type*.

---

**BKI8407E**     An illegal partition number has been specified for *parameter candidate name*.

**Explanation:** The parameter *parameter* expects integer partition numbers as argument.

**System action:**

**User response:** Please check the parameter *parameter* within your profile and correct it accordingly.

---

**BKI8408E**     The parameter *parameter* is not allowed as a name for a target set.

**Explanation:** One possible distinctness of the parameter 'TARGET\_SET' is to specify target set definitions via a naming convention instead of a target set definition file (for SVC only). The argument *parameter* does not meet these naming conventions.

**System action:**

**User response:** Please check the arguments of the

parameter 'TARGET\_SET' within your profile and correct them accordingly.

---

**BKI8409E**    **The parameter TARGET\_NAMING is required to contain the wildcards *source* and *targetset*.**

**Explanation:** The parameter 'TARGET\_NAMING' needs to follow particular conventions including the wildcards *source* and *targetset* to be valid.

**System action:**

**User response:** Please check the arguments of the parameter 'TARGET\_NAMING' within your profile and correct them accordingly.

---

**BKI8414E**    **Error while parsing profile *profile*: Delimiter '*delimiter*' missing.**

**Explanation:** A syntax error has been detected within you profile.

**System action:**

**User response:** Please check the syntax and format of your profile.

---

**BKI8420E**    **Full file-based backups into the repository are not allowed when 'ALLOW\_FULL\_FILE\_BACKUP' is set to 'NO'.**

**Explanation:** If you want to use " to perform a backup with options *util\_file* or *util\_file\_online*, you need to set the option to in the profile. Please note that this option is not recommended.

**System action:**

**User response:** Please correct the setting for the parameter within your profile or modify backup options alternatively.

---

**BKI8435W**    **Annotation file '*file*' could not be loaded.**

**Explanation:** The annotation file is required by the profile wizard for displaying more expressive prompts and online help. However, if this file is missing the wizard is still operational.

**System action:**

**User response:** The annotation file is integral part of the product. If it is missing this means your product installation is corrupt. Please perform a reinstallation. If the warning message still occurs please contact your support line.

---

**BKI8436W**    **Problems occurred on final validation of profile. Incorrect parameters have been marked in the written profile. Please check.**

**Explanation:** Profile parameters for that a user-defined value is obligatory have been skipped without specifying a value.

**System action:**

**User response:** Please rerun the profile wizard for the given profile and ensure you specify a valid value for each parameter marked with \*input mandatory\*.

---

**BKI8437I**    **Verifying password...**

**Explanation:** After a password has been entered the wizard is verifying it by performing a test connection to the according entity.

**System action:**

**User response:** Wait for outcome of the verification. If the verification is successful the wizard proceeds with the next password or writes the password files. If the verification fails the user is asked whether he wants to retry or ignore the issue.

---

**BKI8439E**    **Could not read password filename from profile '*profile*'. File does not exist. (Check options -p, -b)**

**Explanation:** If the filename for the password file is not explicitly specified by the option '-b' the wizard tries to read this information from the profile. The profile being consulted is either the default profile '*profile*' or the profile specified by option '-p'. If this error occurs there is either no default profile available or the profile specified by option '-p' does not exist.

**System action:**

**User response:** Check options '-p' and '-b'.

---

**BKI8441E**    **Please specify either only backup id's or only backup id's with files.**

**Explanation:** You specified some backup id's with files and some backup id's without files.

**System action:**

**User response:** Please specify either only backup id's or only backup id's with files.

---

**BKI8511I**    **The command is: *command name***

**Explanation:** This is an information message echoing the command.

**System action:**

**User response:** None.

---

**BKI8512I      Return code is: *return code***

**Explanation:** This message shows the return code of the Backup Object Manager. Valid return codes: 0 The requested action was performed successfully. 1 The requested action was performed successfully; however, some warnings were issued. 2 or greater The requested action could not be performed due to errors. In this case, an error message should be logged, too.

**System action:**

**User response:** None if the return code is 0. If the return code is greater than 0, analyze the error and/or warning messages. Resolve errors before starting the action again.

---

**BKI8513W      'TDP\_DIR' is not set. The temporary path will be used.**

**Explanation:** The environment variable 'TDP\_DIR' is not set and therefore, the log will be written to the system's temporary path instead.

**System action:**

**User response:** Set the 'TDP\_DIR' environment variable.

---

**BKI8514W      'TDP\_DIR' is not set correctly. The temporary path will be used.**

**Explanation:** The variable TDP\_DIR is set but contains an invalid path. All run logs will be written to the machines temporary directory instead.

**System action:**

**User response:** Check and reset the environment variable TDP\_DIR.

---

**BKI8520E      No command was specified.**

**Explanation:** backom was called without a command line.

**System action:**

**User response:** Check the command syntax and correct the call.

---

**BKI8521E      Command option '*command option*' requires an argument.**

**Explanation:** A command option requiring an argument was specified without an argument.

**System action:** Check the command syntax and correct the call.

**User response:**

---

**BKI8522E      Invalid command '*command*'.**

**Explanation:** backom was called with an invalid command.

**System action:**

**User response:** Check the command syntax and correct the call.

---

**BKI8523E      Error during *action*.**

**Explanation:** An error occurred while performing the named action.

**System action:**

**User response:** Look for other error messages in order to analyze the problem.

---

**BKI8524E      An online restore of the Tablespace is not allowed.**

**Explanation:** Either the database setup or the kind of backup prevents an online table space backup.

**System action:**

**User response:** If you need to do a table space restore it must be done offline.

---

**BKI8525E      The DB2 instance name can consist of at most *characters* characters.**

**Explanation:** The name given for the DB2 instance does not comply with the DB2 naming conventions.

**System action:**

**User response:** Correct the DB2 instance name.

---

**BKI8526E      The DB2 database alias can consist of at most *characters* characters.**

**Explanation:** The name given for the DB2 alias does not comply with the DB2 naming conventions.

**System action:**

**User response:** Correct the DB2 alias name.

---

**BKI8527E      Invalid node. Specify it in the format *node format*.**

**Explanation:** The name given for the DB2 node does not comply with the DB2 naming conventions. Node numbers must be specified in the displayed format, for example 'NODE0000' or '0000'.

**System action:**

**User response:** Correct the DB2 node number.

---

---

**BKI8528E**     **Invalid timestamp. Specify the format as 'yyyymmddhhmmss', wildcards '\*' or '?' are permitted.**

**Explanation:** Specify digits in the format 'yyyymmddhhmmss' or mixed with wildcards '\*' or '?'. where: • yyyy is the year, specified as four digits, • mm is the month, specified as two digits, with leading zero for the months January to September, • dd is the day of the month, specified as two digits, with leading zero for days 1 to 9, • hh is the hour of the day, 00 to 23, with leading zero for hours 0 to 9, • mm is the minutes of the hour, 00 to 59, with leading zero for minutes 0 to 9, • ss is the second of the minute, 00, to 59, with leading zero for seconds 0 to 9. Any digits can be replaced by wildcards '\*' or '?', where • \* means any number of any digits, • ? means exactly one digit of any value.

**System action:**

**User response:** Correct the timestamp.

---

**BKI8529E**     **Invalid log sequence number. Specify it in the format *log sequence format*.**

**Explanation:** The information on the log sequence number(s) does not comply with the expected format. Accepted log sequence numbers are for example '123' or 'S0000123.LOG'.

**System action:**

**User response:** Correct the log sequence number(s).

---

**BKI8530E**     **Profile '*file name*' does not exist or cannot be accessed.**

**Explanation:** Either an existing file could not be opened, or a file could not be created.

**System action:**

**User response:** Check the attributes of the file and/or its directory. For backup processing, read access is required for the files to be backed up. For restore processing, write access is required for the target location of the files to be restored.

---

**BKI8531E**     **Directory '*file path*' does not exist or cannot be accessed.**

**Explanation:** A file path cannot be accessed.

**System action:**

**User response:** Check the attributes of the file and/or its directory. For backup processing, read access is required for the files to be backed up. For restore processing, write access is required for the target location of the files to be restored.

---

**BKI8532E**     **Invalid log chain number. Specify it in the format *log chain format*.**

**Explanation:** The information on the log chain number(s) does not comply with the expected format. Accepted log chain number(s) are for example '123' or 'C0000123'*.file path* .

**System action:**

**User response:** Correct the log chain number(s).

---

**BKI8533E**     **A timestamp range is not allowed for command '*command*'.**

**Explanation:** A timestamp range is not allowed for command restore database, restore tablespace, restore tablespace online and restore DB2 history file. Only a single timestamp argument can be used.

**System action:**

**User response:** Correct the timestamp command option.

---

**BKI8534E**     **Command option '*command option*' is missing.**

**Explanation:** A command was issued without specifying a required command option.

**System action:** Check the command syntax and correct the call.

**User response:** Check the command syntax and correct the call.

---

**BKI8535E**     **Invalid output mode. Specify one of the keywords *keyword list*.**

**Explanation:** Only the listed keyword values are allowed with the output mode command option -m.

**System action:**

**User response:** Correct the output mode command option.

---

**BKI8536E**     **Wildcard characters are not allowed for command '*command*'.**

**Explanation:** For the BackOM commands 'restore database', 'restore tablespace', 'restore tablespace online' and 'restore DB2 history file' it's not allowed to specify the wildcard characters '\*' and '?' in a timestamp command option.

**System action:**

**User response:** Correct the timestamp command option.

---

---

**BKI8537E**    **The path '*path*' is not absolute.**

**Explanation:** A command line argument requires a fully qualified path which was not given.

**System action:**

**User response:** Specify the fully qualified path.

---

**BKI8538E**    **The Tablespace Definition Information '*file name*' cannot be processed.**

**Explanation:** The TDI file could not be parsed because of errors. There are more specific parser error messages before this message occurs.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8540I**    **Using *component\_name* at host *name*:*port***

**Explanation:** The *component\_name* service named is used for the current action.

**System action:**

**User response:** None.

---

**BKI8541I**    **Using profile '*profile path*'.**

**Explanation:** The profile named is used for the current action.

**System action:**

**User response:** None.

---

**BKI8542E**    **Profile '*profile path*' cannot be read.**

**Explanation:** The Backup Object Manager tried to use the profile named but the profile was not available or could not be read. The location of the profile is specified via command line as argument to option '-e' or in environment variable 'XINT\_PROFILE'.

**System action:**

**User response:** Make sure that the profile is available at the location specified in option '-e' on the command line or in environment variable 'XINT\_PROFILE'. Check the attributes of the profile and the corresponding directory and make sure that the file can be accessed.

---

**BKI8543I**    **Querying TSM for file(s) '*file list*'.**

**Explanation:** The Backup Object Manager checks if the files listed are available on the TSM server(s) specified in the corresponding profile.

**System action:**

**User response:** None.

---

---

**BKI8545I**    **No *image type* image(s) found.**

**Explanation:** A request could not be satisfied because the files to be processed are not available on the TSM server.

**System action:**

**User response:** Check if the file(s) were specified correctly in the request.

---

**BKI8546E**    **Environment variable '*environment variable*' is not set or not set correctly.**

**Explanation:** A required environment variable is not set at all or has a value that is not allowed.

**System action:**

**User response:** Check the documentation for the appropriate values of the environment variable named and set its value accordingly.

---

**BKI8548I**    **Elapsed time: *time value***

**Explanation:** After restore and delete, the time elapsed during the action is displayed.

**System action:**

**User response:** None.

---

**BKI8549E**    **Unable to create file '*file name*'.**

**Explanation:** During restore, the file to be restored cannot be created in the target location.

**System action:**

**User response:** Check if there is sufficient space available for the file to be restored. Check the attributes of the target directory; write access is required. If the target file already exists, check that write access is granted

---

**BKI8550W**    **Environment variable '*environment variable*' for output mode has wrong value. Using default.**

**Explanation:** The default output mode can be overridden by the named environment variable. Accepted values are "short", "normal", or "detailed". The system default is "short" for actions on DB2 log files, "normal" otherwise.

**System action:**

**User response:** Specify an appropriate value for the environment variable named, or remove the environment variable.

---



---

**BKI8551E**     **Not all data written to 'file path'.**

**Explanation:** Restoring raw or DB2 log file data ended before all data retrieved from TSM could be written to the file named. The file is incomplete. named.

**System action:**

**User response:** Make sure there is sufficient space for the data to be restored.

---

**BKI8552E**     **File 'file path' could not be closed.**

**Explanation:** After restoring raw or DB2 log file data, the target file could not be closed.

**System action:**

**User response:** Retry the action.

---

**BKI8555E**     **Variable 'DB2DBDFT' or command option 'alias' is required.**

**Explanation:** The password command needs the name/alias of the database, for which the Data Protection for SAP configuration file has to be adapted.

**System action:**

**User response:** Either set the environment variable DB2DBDFT or provide the command option 'alias' with the password command and try again.

---

**BKI8556E**     **Unable to get hostname.**

**Explanation:** The machines hostname could not be determined.

**System action:**

**User response:** Check the TCP/IP configuration of the machine.

---

**BKI8557E**     **The config file 'initfile name.bki' could not be created.**

**Explanation:** Data Protection for SAP tries to create the configuration file named if it is not present at the location specified by the Data Protection for SAP profile keyword CONFIG\_FILE. However, the file cannot be created. This may either be caused by an incorrect path specified by keyword CONFIG\_FILE, or the user may not have the appropriate permissions for creating the file.

**System action:**

**User response:** Make sure the path specified by keyword CONFIG\_FILE is correct and the permissions are set appropriately.

---

**BKI8558I**     **Setting TSM password for partition 'partition number' on host 'host name'.**

**Explanation:** The Data Protection for SAP TSM password is set on the host named for the DB2 partition indicated.

**System action:**

**User response:** None.

---

**BKI8559W**     **For partition 'partition number' switch to host 'host name' and issue the command again.**

**Explanation:** When verifying the TSM password, the Data Protection for SAP configuration file is modified. If the Data Protection for SAP profile keyword CONFIG\_FILE points to an NFS mounted (UNIX or Linux) or a shared (Windows) path accessible to all hosts in a DB2 ESE (EEE) environment, for example the instance home, all configuration files of the various partitions can be modified simultaneously. If, in contrast, keyword CONFIG\_FILE points to a local path, only the configuration files of the local partitions can be modified. In this case, the password verification needs to be done from each host. The message indicates the partitions whose associated configuration files are not accessible. In order to avoid this administrative overhead, it is recommended to place the Data Protection for SAP configuration files in a file system shared by all hosts hosting a partition of the database.

**System action:**

**User response:** Make sure to verify the TSM password(s) for all partitions of the database.

---

**BKI8560E**     **Partition 'partition number' not found in the database configuration.**

**Explanation:** The DB2 partition specified could not be found in the database configuration.

**System action:**

**User response:** Check the configuration of the DB2 ESE(EEE) environment (db2nodes.cfg, environment variable DB2NODE) and try again.

---

**BKI8561W**     **Database 'alias' not listed in the system database directory.**

**Explanation:** The database *alias* does not exist. Because there is a dependency between the alias and the settings for Data Protection for SAP there might be problems during database backup or restore runs. Nevertheless, the Data Protection for SAP configuration file (initalias.utl) will be created and adapted.

**System action:**

**User response:** Check if the alias specified does match to an entry in the DB2 system database directory.

Further, check the argument for the Data Protection for SAP profile keyword CONFIG\_FILE and if necessary adapt it appropriately.

---

**BKI8583E**    **Multiple possible values for parameter 'INCREMENTAL\_LEVEL' detected:***ambiguous statements*

**Explanation:** Multiple specifications of the parameter 'INCREMENTAL\_LEVEL' with overlapping time spans have been detected in the profile.

**System action:** Processing stops.

**User response:** The parameter 'INCREMENTAL\_LEVEL' can be specified multiple times within the profile to use different values at different days of the week or different times during the day. But these multiple definitions must not overlap. Correct the time specifications and retry the operation.

---

**BKI8584I**    **Delete command completed successfully.**

**Explanation:** The object(s) specified with the delete command were successfully deleted from the TSM server.

**System action:**

**User response:** None.

---

**BKI8585W**    **Delete command completed successfully, but had warning(s).**

**Explanation:** The object(s) specified with the delete command were deleted with warning(s) from the TSM server.

**System action:**

**User response:** Check the Backup Object Manager log file for further detailed messages and if required, do the requested interventions manually.

---

**BKI8586I**    **Delete command was aborted.**

**Explanation:** The delete command was aborted by the user. No object(s) were deleted from the TSM server.

**System action:**

**User response:** None.

---

**BKI8587E**    **Delete command failed due to an error.**

**Explanation:** The delete command failed during execution. Not all objects were deleted from the TSM server.

**System action:**

**User response:** Check the Backup Object Manager log file for further detailed messages and try to resolve the error which led to the delete failure. Retry the action. If the error still exists, contact the IBM Support.

---

**BKI8588E**    **Delete command has not been started or no delete result information is available.**

**Explanation:** This message indicates that an operation did not complete successfully. Typically, some other error condition was detected before.

**System action:**

**User response:** Contact the IBM Support.

---

**BKI8589E**    **Query command failed due to an error.**

**Explanation:** The query command failed during execution. Not all queried objects can be displayed.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log. In the absence of preceding error messages, contact IBM Support.

---

**BKI8610I**    **Restoring type ...**

**Explanation:** The restore of *type* has started.

**System action:**

**User response:** None.

---

**BKI8611I**    **Do you want to overwrite the existing database (y/n)?**

**Explanation:**

**System action:**

**User response:**

---

**BKI8612I**    **Continuing restore ...**

**Explanation:** The database restore continues.

**System action:**

**User response:** None.

---

**BKI8613E**    **Terminating restore ...**

**Explanation:** An error occurred, and the database restore terminates.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager and the shared library run logs. Additional information may be found in the DB2 diagnostic log (db2diag.log).

---

**BKI8615I**    **Restore command completed successfully.**

**Explanation:** The object(s) specified with the restore command were successfully restored from the TSM server.

**System action:**

**User response:** None.

---

**BKI8616W    Restore command completed successfully with warnings.**

**Explanation:** The object(s) specified with the restore command were restored with warning(s) from the TSM server.

**System action:**

**User response:** Check the Backup Object Manager log file for further detailed messages and if required, do the requested interventions manually.

---

**BKI8617I    Restore command was aborted.**

**Explanation:** The restore command was aborted by the user. No object(s) were restored from the TSM server.

**System action:**

**User response:** None.

---

**BKI8618E    Restore command failed due to an error.**

**Explanation:** The restore command failed during execution. Not all objects were restored from the TSM server.

**System action:**

**User response:** Check the Backup Object Manager log file for further detailed messages and try to resolve the error which led to the restore failure. Retry the action. If the error still exists, contact the IBM Support.

---

**BKI8619E    Restore command has not been started or no restore result information is available.**

**Explanation:** This message indicates that an operation did not complete successfully. Typically, some other error condition was detected before.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8621I    Restoring file 'file name' ...**

**Explanation:** The system started restoring the file indicated.

**System action:**

**User response:** None.

---

**BKI8622I    Deleting type ...**

**Explanation:** The deletion of *type* has started.

**System action:**

**User response:** None.

---

**BKI8623I    Deleting file 'file name' ...**

**Explanation:** The system started deleting the file indicated.

**System action:**

**User response:** None.

---

**BKI8626W    The Tablespace Definition Information 'file name' could not be deleted.**

**Explanation:** The system tried to remove the TDI image from TSM, but did not succeed.

**System action:**

**User response:** Try to remove the image manually using the Backup Object Manager raw delete facility.

---

**BKI8630E    The command option 'option' must be a number.**

**Explanation:** An invalid argument was specified for command option *option*.

**System action:**

**User response:** Correct the command syntax.

---

**BKI8631I    Backup command completed successfully.**

**Explanation:** The backup operation completed successfully; the backup image can be used for restoring. In the case of a full database backup, the TDI image was generated and stored to TSM, too.

**System action:**

**User response:** None.

---

**BKI8632W    Backup command completed successfully with warnings.**

**Explanation:** The backup operation completed successfully; the backup image can be used for restoring. However, some problems occurred.

**System action:**

**User response:** Check the warning messages and take corrective actions if necessary.



---

**BKI8634E** Backup command failed due to an error.

**Explanation:** No backup was made due to previous errors.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8635E** The command option '*option*' must be a floating point number.

**Explanation:** An invalid argument was specified for command option *option*.

**System action:**

**User response:** Correct the command syntax.

---

**BKI8636E** The command option '*option*' must be one of *values*.

**Explanation:** An invalid argument was specified for command option *option*.

**System action:**

**User response:** Correct the command syntax.

---

**BKI8637I** Type state **backup of '*alias*' started ...**

**Explanation:** A backup operation of database *alias* of type *type* has started.

**System action:**

**User response:** None.

---

**BKI8638I** Type state **backup of tablespace(s) *tablespace#1*, ..., *tablespace#n* of '*alias*' started ...**

**Explanation:** A backup operation of table space(s) *tablespace#1* ... *tablespace#n* of database *alias* of type *type* was started.

**System action:** Processing continues.

**User response:** None.

---

**BKI8639I** Including log files in backup image ...

**Explanation:** The DB2 log files are stored as part of the backup image.

**System action:**

**User response:** None.

---

**BKI8640I** Using *number* buffers with a size of *size* ...

**Explanation:** For backup or restore operations, the indicated number of buffers of the size displayed are used.

**System action:**

**User response:** None.

---

**BKI8641I** Using *number* session(s) ...

**Explanation:** For backup or restore operations, the indicated number of TSM sessions is used.

**System action:**

**User response:** None.

---

**BKI8642I** Using a degree of parallelism of *number* ...

**Explanation:** For backup or restore operations, the degree of parallelism is displayed.

**System action:**

**User response:** None.

---

**BKI8643I** Using vendor library at '*lib path*' ...

**Explanation:** For backup or restore operations, the named vendor library is used.

**System action:**

**User response:** None.

---

**BKI8644W** Offline backups cannot include log files. The option **-L** is being ignored.

**Explanation:** An offline backup operation was started, requesting the DB2 log files to be included. This is not possible with an offline backup. The backup is done without including DB2 log files.

**System action:**

**User response:** Make sure to backup DB2 log files separately.

---

**BKI8651W** Your version of DB2 does not support including log files. The option **-L** is being ignored.

**Explanation:** A backup was started, requesting the DB2 log files to be included, but your version of DB2 does not support this feature. For including DB2 log files in the backup image, DB2 V.8.2 or later is required.

**System action:**

**User response:** Make sure to backup DB2 log files separately.

---

**BKI8652I** DB2 version '*version*' with *number* bits detected.

**Explanation:** The indicated DB2 version was detected by Backup Object Manager.

**System action:**

User response: None.

---

**BKI8653I**      **Using autonomic buffer size and number of buffers ...**

**Explanation:** The buffer size and the number of buffers used for backup or restore is automatically determined by DB2.

**System action:**

**User response:** None.

---

**BKI8654I**      **Using an autonomic buffer size with number buffers ...**

**Explanation:** The buffer size used for backup and restore is automatically determined by DB2. The number of buffers to be used was specified in the call to the Backup Object Manager.

**System action:**

**User response:** None.

---

**BKI8655I**      **Using an autonomic number of buffers with a size of size ...**

**Explanation:** The number of buffers to be used for backup and restore are determined by DB2. The buffer size to be used was specified in the call to the Backup Object Manager.

**System action:**

**User response:** None.

---

**BKI8656I**      **Using an autonomic degree of parallelism ...**

**Explanation:** The number of DB2 processes (UNIX or Linux) or threads (Windows) used for reading or writing data from/to table space containers during backup and restore is determined by DB2.

**System action:**

**User response:** None.

---

**BKI8657W**      **Number is not a valid partition number for a non-partitioned database. Assuming partition 0.**

**Explanation:** The partition number specified in the call to Backup Object Manager does not denote a valid partition of the database. Therefore, the default partition 0 will be used by DB2 and by Backup Object Manager.

**System action:**

**User response:** If your database is not partitioned do not specify the partition number for further actions.

---

**BKI8658E**      **Number is not a partition number of the database or does not denote a partition on this host.**

**Explanation:** The partition number specified does not denote a valid database partition or is not the partition located on the system where Backup Object Manager is called. Backup Object Manager can only operate on partitions residing on the same host.

**System action:**

**User response:** Either change *number* to a partition number of a local partition, or start Backup Object Manager from the same host where the partition resides.

---

**BKI8659I**      **Creating tablespace definition information ...**

**Explanation:** The table space definition information (TDI) is being created in memory.

**System action:**

**User response:** None.

---

**BKI8660I**      **Saving tablespace definition information ...**

**Explanation:** The table space definition information (TDI) is being stored on the TSM server.

**System action:**

**User response:** None.

---

**BKI8661W**      **Could not create Tablespace Definition Information.**

**Explanation:** The system could not collect the table space definition information. The backup was made without TDI. As a result, the backup can be used for restoring the system, but it cannot be used for restoring to a different location.

**System action:**

**User response:** Ensure that your database is enabled to accept CLI connections.

---

**BKI8662W**      **Could not save Tablespace Definition Information.**

**Explanation:** The system could not save the TDI on TSM. The backup was made without TDI. As a result, the backup can be used for restoring the system, but it cannot be used for restoring to a different location.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8663W**    **The Tablespace Definition Information contains device containers of a type unsupported by BackOM redirected restore.**

**Explanation:** A backup of a database using device containers was requested. The backup was successful, it can be used to restore the system, but it cannot be used for restoring to a different location. Restoring to a different location is not supported with device containers.

**System action:**

**User response:** None.

---

**BKI8664E**    **Connecting to 'alias' using CLI failed. The return code was *return code*.**

**Explanation:** The system tried to connect to the database named via the CLI. The operation did not succeed and returned the error code indicated.

**System action:**

**User response:** Ensure that your database is enabled to accept CLI connections.

---

**BKI8665I**    **The backup timestamp is: *timestamp***

**Explanation:** The DB2 backup finished successfully with the timestamp *timestamp*.

**System action:**

**User response:** None.

---

**BKI8666I**    **Redirecting container of tablespace *table space* with ID *id*.**

**Explanation:** The named table space is restored to the location requested.

**System action:**

**User response:** None.

---

**BKI8667W**    **Tablespace *tablespace* with ID *id* was not redirected because its container on source system *SID* is not located in a path starting with '*path*'.**

**Explanation:** The named table space of type SMS was not redirected because the definition of the table space container in the source system does not match the database characteristics that Backup Object Manager expects and that are cited in the message. Therefore, Backup Object Manager tries to restore the table space to a location identical to the location in the original system.

**System action:**

**User response:** Make sure that the table space mentioned can be restored to the original location. This

requires that the user initiating the redirected restore has the appropriate permissions for placing the table space container in this location and that the table space can be restored without overwriting other data. In order to avoid this situation in the future, the administrator of the source system may want to recreate the table space according to the database characteristics Backup Object Manager expects.

---

**BKI8668I**    **Tablespace Definition Information created successfully.**

**Explanation:** The metadata concerning the physical database layout necessary for automatic redirected restores driven by BackOM were created successfully.

**System action:**

**User response:** None.

---

**BKI8669I**    **Free space of device with ID *id* containing the container storage path '*storage\_path*' are *free\_space*.**

**Explanation:** After assigning a container storage path to a dedicated device the remaining free space is calculated and returned to the user.

**System action:**

**User response:** None.

---

**BKI8670I**    **Remaining free space of device with ID '*id*' after assigning container '*container\_name*' of size *size* are *free\_space*.**

**Explanation:** After assigning or creating a tablespace container on a dedicated device the remaining free space is calculated and returned to the user.

**System action:**

**User response:** None.

---

**BKI8671I**    **Using automatic storage path(s) *storage\_path*.**

**Explanation:** A dedicated automatic storage path will be used.

**System action:**

**User response:** None.

---

**BKI8672I**    **Redefining container path(s) of automatic storage tablespace *tablespace* with ID *id*.**

**Explanation:** The path(s) an automatic storage tablespace uses as a starting point for the container(s) will be redefined.

**System action:**

**User response:** None.

---

**BKI8690E**    **Free space check for container 'path' failed. Only *free bytes* free space left on device with ID 'id' but *required bytes* required.**

**Explanation:** The system requires a table space container of the size indicated at the path named, but there is not sufficient free space available to create it.

**System action:**

**User response:** Try to make available the free space required, for example by 1. Removing some files on the volume or file system the container is to reside on. 2. Increasing the size of the file system the container is to reside on. 3. Shrinking the size of the container requested so that it fits in the free space. Note: Backup Object Manager assumes that a small part (0.05%) of the free space will be required by the operating system for administrative use. As a consequence, only 99.95% of the free space on the volume or file system is actually available.

---

**BKI8692E**    **The requested data could not be retrieved.**

**Explanation:** The TDI data of a backup image could not be retrieved and displayed.

**System action:**

**User response:** Look for and respond to preceding error messages.

---

**BKI8693E**    **More than one Tablespace Definition Information file matches your query.**

**Explanation:** More than one TDI file matching the search criteria was found on TSM.

**System action:**

**User response:** Specify additional BackOM command options to restrict the result set.

---

**BKI8700E**    **Internal parser error in Tablespace Definition Information parser.**

**Explanation:** An unexpected error occurred in the TDI parser.

**System action:**

**User response:** Contact IBM Support.

---

**BKI8701E**    **This parser cannot process Tablespace Definition Information version *version*.**

**Explanation:** The current version of Backup Object Manager is not compatible with the version the TDI image was created with. As a consequence, the TDI data cannot be processed.

**System action:**

**User response:** Check the release notes for the appropriate migration procedure.

---

**BKI8702E**    **Too many errors. Bailing out.**

**Explanation:** The TDI parser encountered a number of errors. Restoring is stopped.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8703E**    **Out of memory.**

**Explanation:** The TDI parser encountered a token that cannot be read into the main memory. The TDI image cannot be processed, and restoring is stopped.

**System action:**

**User response:** Contact IBM Support.

---

**BKI8704E**    **Error while reading input file.**

**Explanation:** The TDI parser tried to read more data from disk or from TSM, but did not succeed.

**System action:**

**User response:** Ensure that the TDI image to be processed exists at the expected location and that the system has sufficient privileges to read it.

---

**BKI8705E**    **Error in line *line number*.**

**Explanation:** The TDI parser encountered a syntax error in the line indicated. As a consequence, the TDI image cannot be analyzed.

**System action:**

**User response:** Respond to the error message and correct your TDI image.

---

**BKI8706E**    **The container at '*path*' is inappropriate for tablespace *tablespace*.**

**Explanation:** The container at the location indicated cannot be added to the table space named because of incompatible properties.

**System action:**

**User response:** Check the properties of the container and the table space. Ensure that the IDs of the containers are unique for the table space named.

---

**BKI8707E**    **Missing statement *keyword* in block *block name* near line *line number*.**

**Explanation:** A keyword is missing in the named block ending at the line given.

**System action:**

**User response:** Insert the required statement in the block.

---

**BKI8708E**     **The [TDI] header block must be the first block.**

**Explanation:** The TDI image does not start with the required header ([TDI] block). Only comments or whitespace are allowed before this block.

**System action:**

**User response:** Ensure that the [TDI] block is the first block in the TDI image.

---

**BKI8709E**     **The required block *block name* is missing.**

**Explanation:** The named block is missing in your TDI image.

**System action:**

**User response:** Insert the missing block using valid values.

---

**BKI8710W**     **Duplicate block *block name* ignored at line *line number*.**

**Explanation:** At the line indicated, a block begins whose name was encountered before. The system ignores the duplicate block; it uses the data from the first occurrence of duplicate blocks.

**System action:**

**User response:** Make sure that block names are unique within a TDI image.

---

**BKI8711W**     **Duplicate statement *keyword* ignored in line *line number*.**

**Explanation:** At the line indicated, a duplicate statement was encountered within a block. The system ignores the duplicate statement.

**System action:**

**User response:** Make sure to not specify duplicate statements within a block.

---

**BKI8727E**     **No instance found managing database '*database name*'.**

**Explanation:** The DB2 instance, which manages the named database '*image\_name*' could not be detected.

**System action:** Processing ends.

**User response:** Contact your IBM support personnel.

---

**BKI8728E**     **Could not attach to instance '*instance*'.**

**Explanation:** BackOM was not able to attach to the instance *instance*.

**System action:**

**User response:** First, check the system environment for possible instance candidates. Try the action again by additionally specifying the BackOM command option '-i <instance name>'.

---

**BKI8729I**     **Checking system resources ...**

**Explanation:** Prior to starting the redirected restore by BackOM the existing system resources, e.g. free space of a file system will be checked.

**System action:**

**User response:** None.

---

**BKI8730I**     **Scaling tablespace containers to *number* percent ...**

**Explanation:** All table space containers will be increased by the percentage indicated during the table space container redefinition step.

**System action:**

**User response:** None.

---

**BKI8731I**     **Normalizing tablespace containers ...**

**Explanation:** All containers of a table space will be of the same size after redefinition.

**System action:**

**User response:** None.

---

**BKI8732E**     **The Tablespace Definition Information used with the redirected restore operation contains an invalid database alias.**

**Explanation:** There is an invalid database alias specified in the alias statement of the TDI image.

**System action:**

**User response:** Provide a valid alias.

---

**BKI8733E**     **The Tablespace Definition Information used with the redirected restore operation contains an invalid instance name.**

**Explanation:** There is an invalid database instance specified in the <instance> statement of the TDI image.

**System action:**

**User response:** Provide a valid instance name.



---

**BKI8734E**    The Tablespace Definition Information used with the redirected restore operation contains an invalid partition number.

**Explanation:** There is an invalid partition number specified in the <Node> statement of the TDI image.

**System action:**

**User response:** Provide a valid partition number.

---

**BKI8736E**    Tablespace *tablespace* must have at least one container.

**Explanation:** The TDI image defines the table space named without containers.

**System action:**

**User response:** Ensure that there is at least one container associated with every table space.

---

**BKI8737E**    Tablespace *tablespace* has containers with the combined storage too small.

**Explanation:** The number of used pages of the table space named exceeds the combined size of its table space containers defined in the TDI image.

**System action:**

**User response:** Ensure that every table space has containers of a combined size that is sufficient to hold the used pages of the table space.

---

**BKI8738E**    The container at *path* has a page size that is incompatible with its tablespace.

**Explanation:** The container indicated does not have the same page size as its table space according to the definitions in the TDI image.

**System action:**

**User response:** Contact IBM Support.

---

**BKI8739E**    The type of the container at *path* is incompatible with its tablespace.

**Explanation:** The container indicated cannot be used with its associated table space according to the definitions in the TDI image. SMS table spaces can only have path containers, and DMS table spaces must have file or device containers.

**System action:**

**User response:** Ensure that the appropriate types of containers are used with each table space.

---

**BKI8740E**    The path *path* of a container must not be relative.

**Explanation:** In the TDI image, the named path defining a container does not seem to be a fully qualified path.

**System action:**

**User response:** Ensure that all paths in your TDI are fully qualified.

---

**BKI8741E**    The container at *path* would overwrite existing files or directories.

**Explanation:** The TDI image contains the definition of the container indicated whose location is already in use. This is only allowed when restoring to the source database. Restoring to a different location is stopped.

**System action:** Ensure that all path containers defined in the TDI image point to non-existing paths and all file containers point to non-existing files.

**User response:**

---

**BKI8742E**    The container at *path* is a device container which is not supported.

**Explanation:** In the TDI image, a device container is defined. However, device containers are not supported by Backup Object Manager.

**System action:**

**User response:** Do not use device containers.

---

**BKI8743I**    Local Tablespace Definition Information check returned *return code*.

**Explanation:** The TDI with the target database table space definition was checked. If the return code given does not equal 0 errors occurred.

**System action:**

**User response:** In the case of a non-zero return code, contact IBM Support.

---

**BKI8744I**    Tablespace Definition Information replacement check returned *return code*.

**Explanation:** The system checked whether the table space definitions of the target TDI can replace the definitions of the source TDI. If the return code given does not equal 0 the table space definitions of the target TDI are not valid.

**System action:**

**User response:** In the case of a non-zero return code, contact IBM Support.

---



---

**BKI8745E    The Tablespace Definition Information is invalid.**

**Explanation:** The TDI with the target table space definitions is not valid. Restoring to a different location is stopped.

**System action:**

**User response:** Check the Backup Object Manager log for the return code of the validation. Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8746I    The Tablespace Definition Information is valid.**

**Explanation:** The TDI with the target table space definition is valid. Processing continues.

**System action:**

**User response:** None.

---

**BKI8747E    Not all tablespaces of the original database are contained in the Tablespace Definition Information.**

**Explanation:** At least one table space of the original database is missing in the TDI definitions of the target database. However, a new location must be given for all table spaces of the original database. Therefore, restoring to a different location is stopped.

**System action:**

**User response:** Provide the information on the missing table spaces and their containers.

---

**BKI8748E    The Tablespace Definition Information does not define enough storage to hold all the data of the original database.**

**Explanation:** The target TDI has at least one table space whose containers are too small to hold the data of the source database.

**System action:**

**User response:** Increase the container size or add more containers to the table spaces.

---

**BKI8749E    The page size of a tablespace in the Tablespace Definition Information does not match the one of the original database.**

**Explanation:** The target TDI contains at least one table space with a matching ID in the source TDI, but their page sizes do not match.

**System action:**

**User response:** Ensure that table spaces have the same page sizes in both the source and the target TDI.

---

**BKI8750E    The number of used pages of a tablespace in the Tablespace Definition Information does not match the one of the original database.**

**Explanation:** The target TDI contains at least one table space with a matching ID in the source TDI, but the number of used pages of the target table space does not match the number of used pages in the original database.

**System action:**

**User response:** Ensure that the number of used pages of a table space is the same in both the source and the target TDI.

---

**BKI8751E    The tablespace type in the Tablespace Definition Information does not match the one of the original database.**

**Explanation:** The target TDI holds at least one table space with a matching ID in the source TDI, but the table space types are different.

**System action:**

**User response:** Ensure that the type of a table space is the same in both the source and the target TDI.

---

**BKI8752E    BackOM does not support redirected restore with device containers.**

**Explanation:** The target TDI contains at least one definition of a device container. However, device containers are not supported by Backup Object Manager's redirected restore function.

**System action:**

**User response:** Do not use the Backup Object Manager's redirected restore facility for device containers.

---

**BKI8753E    A container cannot be created at *path*.**

**Explanation:** Either the location where the table space container is to be created does not exist, or the permissions of the user are not sufficient.

**System action:**

**User response:** Check the location and the permissions.

---

**BKI8755I    Getting reference Tablespace Definition Information from TSM ...**

**Explanation:** Retrieving the appropriate TDI to be used by internal checking routines from the TSM server.

**System action:**

**User response:** None.

---

**BKI8756W**     **Could not get reference Tablespace Definition Information from TSM. No input validation is done.**

**Explanation:** The system could not find a TDI image matching the database backup to be restored on TSM. The restore action will be continued, but the input data cannot be validated before the restore starts.

**System action:**

**User response:** None.

---

**BKI8757I**     **Performing redirected restore from 'source alias' to 'target alias' ...**

**Explanation:** Redirected restore of *source alias* to *target alias* is starting.

**System action:**

**User response:** None.

---

**BKI8758E**     **The Tablespace Definition Information does not contain data for tablespace 'tablespace'.**

**Explanation:** A definition of the table space named is expected to be provided in the TDI, but could not be found.

**System action:**

**User response:** Ensure that all table spaces of the source database are also defined in the target TDI.

---

**BKI8759E**     **Redirecting of at least one container failed.**

**Explanation:** The system tried to create the containers for a table space, but at least one of them could not be redirected to a different location. Usually, the location of one of the table space containers is not allowed. A list of containers the system tries to create can be found in the Backup Object Manager log. One of them failed.

**System action:**

**User response:** Check for and respond to further error messages in the Backup Object Manager log.

---

**BKI8760E**     **Directory 'directory' could not be created.**

**Explanation:** The system tried to create the directories to place the containers in, but at least one failed.

**System action:**

**User response:** Ensure that the system has sufficient privileges to create the directories at the desired locations.

---

---

**BKI8761E**     **The container at *path* does not have the minimum size of two extends.**

**Explanation:** A table space container to be created must have at least the size of two extends.

**System action:**

**User response:** Correct the size of the container to be created.

---

**BKI8762I**     **Set tablespace container with ID *id* and name 'tablespace\_container'.**

**Explanation:** Backup Object Manager redirects a table space container to the ID and name indicated.

**System action:**

**User response:** None.

---

**BKI8763E**     **The extent size of a tablespace in the Tablespace Definition Information does not match the one of the original database.**

**Explanation:** The extend sizes of corresponding table spaces defined in the source and target TDIs must be equal. However, for at least one table space different extend sizes are defined in the source and target databases.

**System action:**

**User response:** Define matching extend sizes for corresponding table spaces.

---

**BKI8765I**     **Checking redirected restore from 'source alias' to 'target alias' ...**

**Explanation:** The system is testing whether the original database can be restored to the target location. It checks whether • the file system where the table space containers are to be created has sufficient free space. (If specified, normalizing and scaling are also considered.) • there are existing files and directories identical to the containers defined for the target database. This would indicate that a database of same name and of same structure already exists, and data could be overridden. • the structures of the source and target databases (table space types, page sizes, extend sizes) allow for a redirected restore.

**System action:**

**User response:** None.

---

**BKI8766I**     **Check successful. Redirected restore possible with these settings.**

**Explanation:** The redirected restore test finished successfully. Thus, the redirected restore operation can be started with the options specified for the test run.

**System action:**

---

**User response:** None.

---

**BKI8767W    Warnings occurred.**

**Explanation:** The redirected restore test detected one or more minor conflicts. These conflicts may or may not prevent a successful redirected restore operation. Nevertheless, it is recommended to resolve them.

**System action:**

**User response:** Check for and respond to preceding warning messages in the Backup Object Manager log.

---

**BKI8768E    Check failed. Redirected restore not possible with these settings.**

**Explanation:** The redirected restore test detected one or more major errors which will prevent a successful redirected restore with these settings.

**System action:**

**User response:** Check for and respond to preceding error messages in the Backup Object Manager log.

---

**BKI8769E    Found multiple Tablespace Definition Information matching the given timestamp. Additional search conditions needed.**

**Explanation:** More than one TDI file for a database backup image was found on the TSM server. In such a scenario, the integrity of the metadata assigned to a database backup images is violated and prevents an automatic redirected restore driven by BackOM.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8770I    Getting Tablespace Definition Information used with the redirected restore operation from TSM...**

**Explanation:** The system is retrieving the TDI image from the TSM server.

**System action:**

**User response:** None.

---

**BKI8771E    The Tablespace Definition Information used with the redirected restore operation could not be retrieved.**

**Explanation:** The TDI image specified could not be found.

**System action:**

**User response:** Provide the correct location of the TDI image.

---

**BKI8772E    The selected database has a structure that prevents automatic cloning.**

**Explanation:** You tried to clone an SAP database using redirected restore, but the database does not have the default directory structure of an SAP database. The cloning facility of Backup Object Manager redirected restore cannot be used for this system.

**System action:**

**User response:** You may use either the interactive or the batch mode of Backup Object Manager redirected restore.

---

**BKI8773E    The interactive modification of the containers failed.**

**Explanation:** You tried to interactively change the location of containers, but this operation failed.

**System action:** Processing ends.

**User response:** Contact IBM Support.

---

**BKI8776E    You are not allowed to delete this container.**

**Explanation:** You tried to delete the last container of a table space. However, at least one container must be available to every table space.

**System action:**

**User response:** Make sure that there is at least one container defined for every table space.

---

**BKI8798E    Due to errors, you cannot continue the operation.**

**Explanation:** You tried to start a restore operation after redefining the containers interactively, but errors were detected in the input data. The operation cannot continue.

**System action:**

**User response:** Check all table spaces with '!' error marks in the list and correct the definitions of their containers. Then continue.

---

**BKI8799E    A container must have a size of at least twice the extent size (minimum size for this tablespace).**

**Explanation:** The container size specified is too small. The minimum size of a container is twice the extent size.

**System action:**

**User response:** Correct the container size.

---

**BKI8800I**     **The command is:** *command*

**Explanation:** Displays the command that was issued. The following commands are possible: Backup, Restore, Archive/Retrieve.

**System action:**

**User response:** None.

---

**BKI8801I**     **Time:** *time* — **PID:** *PID\_Number*

**Explanation:** Displays the process id of the DB2 process which called the shared library.

**System action:**

**User response:** None.

---

**BKI8802I**     **Found** *number type* **image(s) on TSM server.**

**Explanation:** For restore and delete operations Data Protection for SAP queries TSM for backup images by means of a timestamp and shows the number of found images.

**System action:**

**User response:** None.

---

**BKI8803I**     **The DB2 image size for this session is about** *'size'*.

**Explanation:** The estimated size of the data to be backed up is displayed.

**System action:**

**User response:** None.

---

**BKI8804W**     **The recovery log could not be written.**

**Explanation:** After every backup or restore, Data Protection for SAP writes a record into the recovery log file *tdprlf.<SID>.node\_name.log*. It is located in the path pointed to by environment variable *TDP\_DIR*.

**System action:**

**User response:** Check, if the permissions are set correctly and if there is sufficient free space in your file system.

---

**BKI8805I**     **The restore was cancelled by the user. Existing data not overwritten.**

**Explanation:** The existing database is still operational.

**System action:**

**User response:** None.

---

**BKI8806I**     *product version.release.modification.level (build\_numberbeta) build\_date*

**Explanation:** Writes version information into the product log file.

**System action:**

**User response:** None.

---

**BKI8807I**     **Archive log file** *'log number'* **of chain** *'log chain number'*.

**Explanation:** Writes information about the log file to be archived into the product log file.

**System action:**

**User response:** None.

---

**BKI8808I**     **Retrieve log file** *'log number'* **of chain** *'log chain number'*. **Seeking for TSM image** *'image'*.

**Explanation:** Writes information about the log file to be retrieved into the product log file.

**System action:**

**User response:** None.

---

**BKI8810I**     **Cleaning up resources of process** *PID\_number'*.

**Explanation:** All resources used by the product will be released.

**System action:**

**User response:** None.

---

**BKI8812I**     **Committed TSM sessions of this backup run will be deleted.**

**Explanation:** During a backup with multiple sessions, an error occurred. The backup operation is stopped. TSM sessions already committed during this operation are being deleted from the TSM server in order to prevent them from being considered restorable.

**System action:**

**User response:** None.

---

**BKI8813E**     **Error deleting committed TSM sessions.**

**Explanation:** One or more committed TSM sessions could not be deleted during the postprocessing of the failed backup run.

**System action:**

**User response:** Use the Backup Object Manager to delete the file(s) manually.

---

---

**BKI8814I** Inquired TSM with mask '*search mask*'.

**Explanation:** The string denoted is used to inquire TSM for backup images.

**System action:**

**User response:** None.

---

**BKI8815I** Information for Log Manager:  
*DB2\_instance DB2\_database\_name*  
*DB2\_database\_alias*  
*log\_and\_log\_chain\_number partition*

**Explanation:** The information listed is provided to the DB2 Log Manager.

**System action:**

**User response:** None.

---

**BKI8816I** DB2 version '*version*' detected.

**Explanation:** TSM for ERP is running on a system where DB2 version *version* is set up.

**System action:**

**User response:** None.

---

**BKI8817I** No corresponding committed TSM session(s) found. Nothing will be deleted.

**Explanation:** The cleanup of a failed TSM for ERP database backup could not find any partial TSM backup image of that run already stored on the TSM server for deletion.

**System action:**

**User response:** None.

---

**BKI8818W** Invalid value specified for BACKOM\_LOCATION.

**Explanation:** The BackOM executable was not started for collecting database metadata due to an invalid specification.

**System action:**

**User response:** Check the value of the TSM for ERP configuration parameter BACKOM\_LOCATION. The parameter can be found in the vendor environment file and must contain the fully qualified name of the BackOM executable.

---

**BKI8819I** The TSM objects matching with mask '*search mask*' will be deleted.

**Explanation:** The cleanup of a failed TSM for ERP database backup will delete any partial TSM backup image of that run already stored on the TSM server and matching *search mask*.

---

**System action:**

**User response:** None.

---

**BKI8820E** No valid TSM session found.

**Explanation:** A running TSM for ERP workflow could not continue due to a missing TSM session.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI8821I** Using option(s) '*options*'.

**Explanation:** The *options* string specifies vendor options that DB2 provides to the TSM for ERP library as part of the calling function. These could be options directly provided as part of the database backup or restore command or options made persistent in the database configuration, here the parameters VENDOROPT, LOGARCHOPT1 or LOGARCHOPT2.

**System action:**

**User response:** None.

---

**BKI8822I** Configuration parameter(s):*parameters*

**Explanation:** The list specifies a set of runtime parameters that the TSM for ERP library is using for the calling workflow.

**System action:**

**User response:** None.

---

**BKI8823W** Configuration parameter SRC\_DB\_ALIAS requires parameter SRC\_DB\_INSTANCE and vice versa.

**Explanation:** To be able to recover a database after a redirected restore using the built-in DB2 rollforward command, TSM for ERP needs both SRC\_DB\_ALIAS and SRC\_DB\_INSTANCE.

**System action:**

**User response:** Include both parameters SRC\_DB\_ALIAS and SRC\_DB\_INSTANCE in the TSM for ERP vendor environment file and retry the database recovery.

---

**BKI8899E** Interface problem in function *function*: Value '*value*' of parameter '*parameter*' is not supported with DB2 version '*version*'.

**Explanation:** An unknown action code during the program execution was encountered.

**System action:**

**User response:** Contact your IBM support personnel.

---



---

**BKI9001E    Internal error: *error***

**Explanation:** The following internal error: *error* has been encountered.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9002E    Parameter 'all' is not supported.**

**Explanation:** The provided parameter is not supported. This error can be caused by nodes that are specified without being separated by commas.

**System action:** Processing ends.

**User response:** Make sure the specified nodes are separated by commas, then try the command again.

---

**BKI9003E    Incompatible components installed:  
                  *component name one, component name two***

**Explanation:** The components mentioned in the message text can not be used together. This may be the result of an incomplete upgrade.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9004E    Location of the message catalog could not be figured out.**

**Explanation:** Data Protection for SAP locates the message catalog over the install directory. When Data Protection for SAP is exploited through a library like DB2 or Oracle/RMAN, then the environment variable XINT-NLS\_CATALOG\_PATH is mandatory.

**System action:** Processing stops.

**User response:** The environment variable XINT-NLS\_CATALOG\_PATH may be required..

---

**BKI9005E    A not supported by B**

**Explanation:** The installed version of product *B* does not support product *A*. Most likely you need to upgrade product *B*.

**System action:**

**User response:** Contact the IBM Support.

---

**BKI9006E    Internal error while reading  
                  environment variable: *variable***

**Explanation:** This is an internal error.

**System action:**

**User response:** Contact IBM Support.

---

---

**BKI9007W    An error occurred while terminating the  
                  application:*the error***

**Explanation:** While terminating the application, an error occurred. This has no impact on the success of the operation.

**System action:**

**User response:** None.

---

**BKI9008E    This product requires at least version  
                  *number of product name* to be installed.**

**Explanation:** The version of the application *product name* is not supported by this application. Most likely application *product name* needs to be upgraded.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9009W    The following products are not  
                  compatible: *product name first (product  
                                  version first)* and *product name second  
                                  (product version second)*.**

**Explanation:** This message is similar to BKI9008E. But in this case it's not obvious which one of the products needs to be upgraded.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9010E    Could not determine installation  
                  directory for *program*. Please restart the  
                  process using a fully qualified name.**

**Explanation:** The name of the path where a given program is located could not be determined.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI9011E    There was no response received within  
                  *number seconds*; timeout is expired. You  
                  can increase the timeout by specifying  
                  the profile parameter *timeoutphase* for the  
                  current phase of the backup or restore  
                  operation.**

**Explanation:** The communication between two program components was suspended or stopped, which can lead to a timeout.

**System action:**

**User response:** Increase the timeout by specifying the profile parameter TIMEOUT\_<PHASE> for the current phase of the backup or restore operation. If this does not solve the problem please contact your IBM support personnel.

---



---

**BKI9012E**     **One of the requested data containers is already the subject of a restore.**

**Explanation:** A restore of the same data has already been requested.

**System action:** Processing stops.

**User response:** Multiple restore operations are usually prevented by the database system. If there are no multiple restore operations performed concurrently, then contact IBM support for this problem.

---

**BKI9013E**     **Concurrent restore of objects being backed up with multiple device agents is not supported.**

**Explanation:** This special restore scenario is unsupported.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI9014E**     **Failed to load library: *library* reason: *reason***

**Explanation:** The ACS library could not be loaded.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI9015E**     **Failed to locate functions in library: *library* reason: *reason***

**Explanation:** One or more functions could not be found in the ACS library.

**System action:**

**User response:** Contact your IBM support personnel.

---

**BKI9200E**     **Additional support information: An exception was thrown at position: *position(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9201E**     **Additional support information: An exception was thrown at position: *position(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9202E**     **Additional support information: An exception was thrown at position: *position(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9203E**     **Additional support information: An exception was thrown at position: *position(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9204E**     **Additional support information: An exception was thrown at position: *file(line)* (*text\_description*).**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9205E**     **Additional support information: Unable to instantiate *name* at *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9206E**     **Additional support information: Unable to use *actual* when expecting *expected* at *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9207E**     **Additional support information: An exception was thrown at position: *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored.

Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9208E**     **System error *errno*: *errno* text at position: *file(line)*.**

**Explanation:** A system call failed with *errno*.

**System action:**

**User response:** Check *errno* and *errno* text with you system administrator. If you cannot resolve the problem, contact IBM Support.

---

**BKI9209E**     **Additional support information: No handler registered for message type *message*. Thrown at position: *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9210E**     **ESD\_AbortDispatchingException thrown at position: *file(line)*.**

**Explanation:** An internal error occurred.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9211E**     **Additional support information: An exception was thrown at position: *file(line)*. (State *state*)**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9212E**     **Additional support information: No handler registered for message type (*message\_type*, *classname*). Thrown at position: *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9213E**     **A memory allocation request failed at position: *file(line)*.**

**Explanation:** This error message indicates an out-of-storage condition. It may occur due to a previous error, or it may be owed to a large size of the internal buffers.

**System action:**

**User response:** Check for and respond to preceding error messages. You may also want to reduce the size of the internal buffers (keyword BUFFSIZE in the Data Protection for SAP profile).

---

**BKI9214E**     **Additional support information: An exception was thrown from a destructor.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9215E**     **The maximum string length supported for *name* is *length*.**

**Explanation:** The supported string length of a system component, e.g. file name or hostname has been violated.

**System action:**

**User response:** Check the components involved in the operation. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI9216E**     **Additional support information: An exception was thrown at position: *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9217E**     **Additional support information: An exception was thrown at position: *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9218E**     **Additional support information: An exception was thrown at position: *file(line)*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9219E**     **Additional support information: Invalid error type *type* encountered.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact IBM Support.

---

**BKI9220E**     **Additional support information: Second call of *call*.**

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact your IBM Support.

**System action:**

**User response:** Contact your IBM Support.

---

**BKI9221E**     **The operation ended prematurely with return code *rc*. An exception was thrown at position: *file(line)*.**

**Explanation:** An operation could not be finished successfully due to an unexpected termination.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI9222E**     **A snapshot-type operation was interrupted, Additional support information: An exception was thrown at position: *file(line)*.**

**Explanation:** A snapshot operation could not be finished successfully due to an unexpected interruption.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI9223E**     **The operation will be aborted.**

**Explanation:** An internal error during an operation leads to an abort of that operation.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI9224E**     **The operation will be aborted. Check for other error messages in the log files.**

**Explanation:** An internal error during an operation leads to an abort of that operation.

**System action:**

**User response:** Check the logs for further information. If the problem cannot be resolved contact your IBM support personnel.

---

**BKI9225E**     **The keyword '*keyword*' has not been found in the line '*line*' of the file '*file\_name*'. Please change it back to the original value if you modified it.**

**Explanation:** Occurs for example if the entries in the file /etc/inittab have been modified before a second installation.

**System action:**

**User response:** Change the modified *line* in the *file\_name* back to the original value, *keyword* gives a hint to what is expected.

---

**BKI9226E**     **The ASM instance with ORACLE\_SID='*sid*' is not available. Please check if the ORACLE\_SID is set to the right ASM instance, if yes start it and check the availability.**

**Explanation:** The ASM instance with the specified SID could not be accessed.

**System action:** Processing ends.

**User response:** Check if the ASM instance with the specified SID is available and started.

---

**BKI9227E**     **The ASM diskgroup '*diskgroup*' has not been found. Ensure that it is available.**

**Explanation:** The specified diskgroup is needed for the backup but it has not been found in the ASM instance.

**System action:** Processing ends.

**User response:** Please ensure that the diskgroup is available in your ASM instance and that it is mounted.

---

**BKI9228E** Expected ASM file but found file: 'file'

**Explanation:** ASM files were expected, but a non-ASM file has been found. This might occur if your database resides on ASM and non-ASM files.

**System action:** Processing ends.

**User response:** Please ensure that you do not have a mixed environment with ASM and non-ASM files.

---

**BKI9229E** Expected file but found ASM file: 'file'

**Explanation:** Non-ASM files were expected, but an ASM file has been found. This might occur if your database resides on ASM and non-ASM files.

**System action:** Processing ends.

**User response:** Please ensure that you do not have a mixed environment with ASM and non-ASM files.

---

**BKI9300E** Additional support information:  
Aborting 'send' operation. See previous error.

**Explanation:** This error may have been caused by previous errors.

**System action:**

**User response:** Check for previous errors and correct them.

---

**BKI9301E** Additional support information: State  
state does not match state pattern pattern.

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact IBM Support.

**System action:**

**User response:** Contact your IBM Support.

---

**BKI9302E** Additional support information: Unused  
ESD\_ReturnChannel destroyed.  
Dumping callstack:callstack

**Explanation:** This error message typically follows a previous error. If so this error message can be ignored. Otherwise contact your IBM Support.

**System action:**

**User response:** Contact your IBM Support.

---

**BKI9306I** Dumping callstack.

**Explanation:** This message is always preceded by an error message indicating the problem. It provides additional information that might help IBM Support to analyze the cause of the problem.

**System action:**

**User response:** If you need to call IBM Support, provide the information given in this message together with the error information.

---

**BKI9307E** Did not find a winsock dll compatible  
with version major\_winsock\_version.  
minor\_winsock\_version. Version found is  
low\_byte\_available  
version.high\_byte\_available\_version.

**Explanation:** The product failed to load the appropriate winsock dll.

**System action:**

**User response:** Contact your system administrator.

---

**BKI9308E** A socket request timed out after  
processing number of bytes bytes. file(line).

**Explanation:** A socket request was issued with a timeout and the requested action could not be completed within the time specified. It was cancelled after processing number of bytes bytes.

**System action:**

**User response:** If you need to call IBM Support, provide the information given in this message together with the error information.

---

**BKI9309E** Operation terminated due to an explicit  
abort request.

**Explanation:** An operation was terminated due to customer intervention.

**System action:**

**User response:** None.

---

**BKI9310E** Could not add backup\_id to the  
repository at path.

**Explanation:** The system was not able to add information on the named backup to the repository located in the path indicated.

**System action:**

**User response:** Make sure the repository path is set correctly. If you need to correct the repository location, restart the server executable afterwards. If the problem persists contact your IBM support personnel.

---

**BKI9311E** Could not find backup\_id in the  
repository at path.

**Explanation:** Information on the backup denoted by the backup ID could not be found in the repository located in the path indicated.

**System action:**

**User response:** Make sure the repository path is set

correctly. If you need to correct the repository location, restart the server executable afterwards. If the problem persists contact your IBM support personnel.

---

**BKI9312E**     *backup\_id* is currently locked in the repository at *repository*.

**Explanation:** The information on the backup denoted by the backup ID is currently locked by a different process. Make sure to run only a single operation using a specific backup at a time.

**System action:**

**User response:** Wait for the other operation to finish or abort this operation. Then start again. If the problem persists contact your IBM support personnel.

---

**BKI9313E**     Failed to update *backup\_id* in the repository at *path*.

**Explanation:** The information on the named backup could not be updated in the repository located at the path named.

**System action:**

**User response:** Check the logs for other messages pointing to the cause of this problem. Resolve any problems indicated. If the problem persists contact your IBM support personnel.

---

**BKI9314E**     Could not remove *backup\_id* from the repository at *path*.

**Explanation:** An attempt to remove the information on the backup named from the repository located at the path indicated failed.

**System action:**

**User response:** Check the logs for other messages pointing to the cause of this problem. Resolve any problems indicated. If the problem persists contact your IBM support personnel.

---

**BKI9315E**     Could not access the repository at '*path*' because it is currently locked by another process.

**Explanation:** When starting up, the server tried to load the repository located at the path named. However, the repository was locked by a different process. This can happen if two server processes try to use the same repository. This is not supported.

**System action:**

**User response:** Make sure each instance of the server uses its own repository.

---

**BKI9316E**     The name '*name*' refers to an existing file or directory, but it does not appear to be a valid repository. In order to continue you need to specify either a non existing directory or the path of an existing valid repository.

**Explanation:** The server could not locate its repository when it started.

**System action:**

**User response:** Correct the profile or the call as appropriate.

---

**BKI9317E**     The specified backup id '*backup\_id*' must have *char\_count* characters. If the specified amount of characters exists, make sure there are no special characters.

**Explanation:** The length of the specified backup id is incorrect.

**System action:**

**User response:** Correct the length of the backup id to match the specified length.

---

**BKI9318E**     The file '*filename*' has not been found. It is required for the device agent to function. Check your installation.

**Explanation:** The specified file has not been found even though it was included in the installation.

**System action:**

**User response:** Check that the specified file is available in the specified location. Consider installing the product again in order to make the file available.





---

## Appendix. Accessibility features for the Tivoli Storage Manager product family

Accessibility features help users who have a disability, such as restricted mobility or limited vision, to use information technology products successfully.

### Accessibility features

The following list includes the major accessibility features in the Tivoli Storage Manager family of products:

- Keyboard-only operation
- Interfaces that are commonly used by screen readers
- Keys that are discernible by touch but do not activate just by touching them
- Industry-standard devices for ports and connectors
- The attachment of alternative input and output devices

The Tivoli Storage Manager Information Center, and its related publications, are accessibility-enabled. The accessibility features of the information center are described at [http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3/topic/com.ibm.help.ic.doc/iehs36\\_accessibility.html](http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3/topic/com.ibm.help.ic.doc/iehs36_accessibility.html).

### Keyboard navigation

On Windows, the Tivoli Storage Manager product family follows Microsoft conventions for all keyboard navigation and access. Drag and Drop support is managed using the Microsoft Windows Accessibility option known as MouseKeys. For more information about MouseKeys and other Windows accessibility options, please refer to the Windows online help (keyword: MouseKeys).

On other operating systems, these products follow the operating-system conventions for keyboard navigation and access.

### Vendor software

The Tivoli Storage Manager product family includes certain vendor software that is not covered under the IBM license agreement. IBM makes no representation about the accessibility features of these products. Contact the vendor for the accessibility information about its products.

### IBM and accessibility

See the IBM Human Ability and Accessibility Center for more information about the commitment that IBM has to accessibility.



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## Glossary

This glossary includes terms and definitions for IBM Tivoli Storage Manager and IBM Tivoli Storage FlashCopy Manager products.

To view glossaries for other IBM products, go to <http://www.ibm.com/software/globalization/terminology/>.

The following cross-references are used in this glossary:

- *See* refers the reader from a term to a preferred synonym, or from an acronym or abbreviation to the defined full form.
- *See also* refers the reader to a related or contrasting term.

### A

#### **absolute mode**

In storage management, a backup copy-group mode that specifies that a file is considered for incremental backup even if the file has not changed since the last backup. See also *modified mode*.

#### **access control list (ACL)**

In computer security, a list associated with an object that identifies all the subjects that can access the object and their access rights. For example, an access control list is associated with a file that identifies the users who can access that file and their access rights.

#### **access mode**

An attribute of a storage pool or a storage volume that specifies whether the server can write to or read from the storage pool or storage volume. The access mode can be read/write, read-only, or unavailable. Volumes in primary storage pools can also have an access mode of destroyed. Volumes in copy storage pools can also have an access mode of offsite.

#### **acknowledgment**

The transmission of acknowledgment characters as a positive response to a data transmission.

**ACL** See *access control list*.

#### **activate**

To validate the contents of a policy set and then make it the active policy set.

#### **active-data pool**

A named set of storage pool volumes that contain only active versions of client backup data.

#### **active file system**

A file system to which space management has been added. With space management, tasks for an active file system include automatic migration, reconciliation, selective migration, and recall. Contrast with *inactive file system*.

#### **active policy set**

The activated policy set that contains the policy rules in use by all client nodes that are assigned to the policy domain. See also *policy domain* and *policy set*.

**active version**

The most recent backup copy of a file stored. The active version of a file cannot be deleted until a backup process detects that the user has either replaced the file with a newer version or has deleted the file from the file server or workstation. Contrast with *inactive version*.

**activity log**

A log that records normal activity messages that are generated by the server. These messages include information about server and client operations, such as the start time of sessions or device I/O errors.

**adaptive subfile backup**

A type of backup that sends only changed portions of a file to the server, instead of sending the entire file. Adaptive subfile backup reduces network traffic and increases the speed of the backup.

**administrative client**

A program that runs on a file server, workstation, or mainframe that administrators use to control and monitor the Tivoli Storage Manager server. Contrast with *backup-archive client*.

**administrative command schedule**

A database record that describes the planned processing of an administrative command during a specific time period. See also *client schedule*.

**administrative privilege class**

See *privilege class*.

**administrative session**

A period of time during which an administrator user ID communicates with a server to perform administrative tasks. Contrast with *client node session*.

**administrator**

A user who is registered to the server as an administrator, and who is authorized to perform tasks and issue commands through the assignment of an administrative privilege class.

**Advanced Program-to-Program Communication (APPC)**

An implementation of the SNA LU 6.2 protocol that allows interconnected systems to communicate and share the processing of programs.

**agent node**

A client node that has been granted proxy authority to perform operations on behalf of another client node, which is the target node.

**aggregate**

An object, stored in one or more storage pools, consisting of a group of logical files that are packaged together. See also *logical file* and *physical file*.

**aggregate data transfer rate**

A performance statistic that indicates the average number of bytes that were transferred per second while processing a given operation.

**APPC** See *Advanced Program-to-Program Communication*.

**application client**

A program that is installed on a system to protect an application. The Tivoli Storage Manager server provides backup services to an application client.

**archive**

To copy programs, data, or files to other storage media, usually for long-term storage or security. Contrast with *retrieve*.

**archive copy**

A file or group of files that was archived to server storage.

**archive copy group**

A policy object containing attributes that control the generation, destination, and expiration of archived files.

**archive-retention grace period**

The number of days that the storage manager retains an archived file when the server is unable to rebind the file to an appropriate management class. See also *bind*.

**association**

(1) The defined relationship between a client node and a client schedule. An association identifies the name of a schedule, the name of the policy domain to which the schedule belongs, and the name of a client node that performs scheduled operations.

(2) On a configuration manager, the defined relationship between a profile and an object such as a policy domain. Profile associations define the configuration information that is distributed to a managed server when it subscribes to the profile.

**audit** To check for logical inconsistencies between information that the server has and the actual condition of the system. The storage manager can audit information about items such as volumes, libraries, and licenses. For example, when a storage manager audits a volume, the server checks for inconsistencies between information about backed-up or archived files that are stored in the database and the actual data that are associated with each backup version or archive copy in server storage.

**authentication**

The process of checking a user's password before permitting user access to the Tivoli Storage Manager server. Authentication can be turned on or off by an administrator with system privilege.

**authentication rule**

A specification that another user can use to either restore or retrieve files from storage.

**authority**

The right to access objects, resources, or functions. See also *privilege class*.

**authorization rule**

A specification that permits another user to either restore or retrieve a user's files from storage.

**authorized user**

A user who has administrative authority for the Tivoli Storage Manager client on a workstation. This user changes passwords, performs open registrations, and deletes file spaces.

**AutoFS**

See *automounted file system*.

**automatic detection**

A feature that detects, reports, and updates the serial number of a drive or library in the database when the path from the local server is defined.

**automatic migration**

The process that is used to automatically move files from a local file system to storage, based on options and settings that are chosen by a root user on a workstation. See also *threshold migration* and *demand migration*.

**automatic reconciliation**

The process that is used to reconcile file systems at regular intervals. The intervals are set by a user with root user authority. See also *reconciliation*.

**automounted file system (AutoFS)**

A file system that is managed by an automounter daemon. The automounter daemon monitors a specified directory path, and automatically mounts the file system to access data.

**B****backup-archive client**

A program that runs on a workstation or file server and provides a means for users to back up, archive, restore, and retrieve files. Contrast with *administrative client*.

**backup copy group**

A policy object containing attributes that control the generation, destination, and expiration of backup versions of files. A backup copy group belongs to a management class.

**backup-retention grace period**

The number of days the storage manager retains a backup version after the server is unable to rebind the file to an appropriate management class.

**backup set**

A portable, consolidated group of active versions of backup files that are generated for a backup-archive client.

**backup set collection**

A group of backup sets that are created at the same time and which have the same backup set name, volume names, description, and device classes. The server identifies each backup set in the collection by its node name, backup set name, and file type.

**backup version**

A file or directory that a client node backed up to server storage. More than one backup version can exist in server storage, but only one backup version is the active version. See also *active version* and *inactive version*.

**bind** To associate all versions of a file with a management class name. See *rebind*.

**bindery**

A database that consists of three system files for a NetWare server. The files contain user IDs and user restrictions.

**C**

**cache** To place a duplicate copy of a file on random access media when the server migrates a file to another storage pool in the hierarchy.

**cache file**

A snapshot of a logical volume created by Logical Volume Snapshot Agent. Blocks are saved immediately before they are modified during the image backup and their logical extents are saved in the cache files.

**CAD** See *client acceptor*.

**central scheduler**

A function that permits an administrator to schedule client operations and administrative commands. The operations can be scheduled to occur periodically or on a specific date. See *client schedule* and *administrative command schedule*.

**client** A software program or computer that requests services from a server.

**client acceptor**

An HTTP service that serves the applet for the web client to web browsers. On Windows systems, the client acceptor is installed and run as a service. On AIX, UNIX, and Linux systems, the client acceptor is run as a daemon, and is also called the *client acceptor daemon* (CAD).

**client acceptor daemon (CAD)**

See *client acceptor*.

**client domain**

The set of drives, file systems, or volumes that the user selects to back up or archive data, using the backup-archive client.

**client node**

A file server or workstation on which the backup-archive client program has been installed, and which has been registered to the server.

**client node session**

A session in which a client node communicates with a server to perform backup, restore, archive, retrieve, migrate, or recall requests. Contrast with *administrative session*.

**client options file**

An editable file that identifies the server and communication method, and provides the configuration for backup, archive, hierarchical storage management, and scheduling.

**client option set**

A group of options that are defined on the server and used on client nodes in conjunction with client options files.

**client-polling scheduling mode**

A method of operation in which the client queries the server for work. Contrast with *server-prompted scheduling mode*.

**client schedule**

A database record that describes the planned processing of a client operation during a specific time period. The client operation can be a backup, archive, restore, or retrieve operation, a client operating system command, or a macro. See also *administrative command schedule*.

**client/server**

Pertaining to the model of interaction in distributed data processing in which a program on one computer sends a request to a program on another computer and awaits a response. The requesting program is called a client; the answering program is called a server.

**client system-options file**

A file, used on AIX, UNIX, or Linux system clients, containing a set of processing options that identify the servers to be contacted for services. This file also specifies communication methods and options for backup, archive, hierarchical storage management, and scheduling. This file is also called the *dsm.sys* file. See also *client user-options file*.

**client user-options file**

A file that contains the set of processing options that the clients on the system use. The set can include options that determine the server that the client contacts, and options that affect backup operations, archive operations, hierarchical storage management operations, and scheduled operations. This file is also called the *dsm.opt* file. For AIX, UNIX, or Linux systems, see also *client system-options file*.

**closed registration**

A registration process in which only an administrator can register workstations as client nodes with the server. Contrast with *open registration*.

**collocation**

The process of keeping all data belonging to a single-client file space, a single client node, or a group of client nodes on a minimal number of sequential-access volumes within a storage pool. Collocation can reduce the number of volumes that must be accessed when a large amount of data must be restored.

**collocation group**

A user-defined group of client nodes whose data is stored on a minimal number of volumes through the process of collocation.

**commit point**

A point in time when data is considered consistent.

**Common Programming Interface for Communications (CPI-C)**

A call-level interface that provides a consistent application programming interface (API) for applications that use program-to-program communications. CPI-C uses LU 6.2 architecture to create a set of interprogram services that can establish and end a conversation, send and receive data, exchange control information, and notify a partner program of errors.

**communication method**

The method by which a client and server exchange information. See also *Transmission Control Protocol/Internet Protocol*.

**communication protocol**

A set of defined interfaces that permit computers to communicate with each other.

**compression**

A function that removes repetitive characters, spaces, or strings of characters from the data being processed and replaces the repetitive characters with control characters. Compression reduces the amount of storage space that is required for the data.

**configuration manager**

A server that distributes configuration information, such as policies and schedules, to managed servers according to their profiles. Configuration information can include policy and schedules. See also *managed server* and *profile*.

**conversation**

A connection between two programs over a session that allows them to communicate with each other while processing a transaction.



**copy backup**

A full backup in which the transaction log files are not deleted so that backup procedures that use incremental or differential backups are not disrupted.

**copy group**

A policy object containing attributes that control how backup versions or archive copies are generated, where backup versions or archive copies are initially located, and when backup versions or archive copies expire. A copy group belongs to a management class. See also *archive copy group*, *backup copy group*, *backup version*, and *management class*.

**copy storage pool**

A named set of volumes that contain copies of files that reside in primary storage pools. Copy storage pools are used only to back up the data that is stored in primary storage pools. A copy storage pool cannot be a destination for a backup copy group, an archive copy group, or a management class (for space-managed files). See also *primary storage pool* and *destination*.

**CPI-C** See *Common Programming Interface for Communications*.

**D****daemon**

A program that runs unattended to perform continuous or periodic functions, such as network control.

**damaged file**

A physical file in which Tivoli Storage Manager has detected read errors.

**data access control mode**

A mode that controls whether a command can access a migrated file, see a migrated file as zero-length, or receive an input/output error if it attempts to access a migrated file. See also *execution mode*.

**database backup series**

One full backup of the database, plus up to 32 incremental backups made since that full backup. Each full backup that is run starts a new database backup series. A number identifies each backup series.

**database snapshot**

A complete backup of the entire database to media that can be taken off-site. When a database snapshot is created, the current database backup series is not interrupted. A database snapshot cannot have incremental database backups associated with it. See also *database backup series*. Contrast with *full backup*.

**data deduplication**

A method of reducing storage needs by eliminating redundant data. Only one instance of the data is retained on storage media. Other instances of the same data are replaced with a pointer to the retained instance.

**data manager server**

A server that collects metadata information for client inventory and manages transactions for the storage agent over the local area network. The data manager server informs the storage agent with applicable library attributes and the target volume identifier.

**data mover**

A device that moves data on behalf of the server. A network-attached storage (NAS) file server is a data mover.

**data storage-management application-programming interface (DSMAPI)**

A set of functions and semantics that can monitor events on files, and manage and maintain the data in a file. In an HSM environment, a DSMAPI uses events to notify data management applications about operations on files, stores arbitrary attribute information with a file, supports managed regions in a file, and uses DSMAPI access rights to control access to a file object.

**default management class**

A management class that is assigned to a policy set. This class is used to govern backed up or archived files when a file is not explicitly associated with a specific management class through the include-exclude list.

**deduplication**

See *data deduplication*.

**demand migration**

The process that is used to respond to an out-of-space condition on a file system for which hierarchical storage management (HSM) is active. Files are migrated to server storage until space usage drops to the low threshold that was set for the file system. If the high threshold and low threshold are the same, one file is migrated.

**desktop client**

The group of backup-archive clients that includes clients on Microsoft Windows, Apple, and Novell NetWare operating systems.

**destination**

A copy group or management class attribute that specifies the primary storage pool to which a client file will be backed up, archived, or migrated.

**device class**

A named set of characteristics that are applied to a group of storage devices. Each device class has a unique name and represents a device type of disk, file, optical disk, or tape.

**device configuration file**

(1) For a server, a file that contains information about defined device classes, and, on some servers, defined libraries and drives. The information is a copy of the device configuration information in the database.

(2) For a storage agent, a file that contains the name and password of the storage agent, and information about the server that is managing the SAN-attached libraries and drives that the storage agent uses.

**device driver**

A program that provides an interface between a specific device and the application program that uses the device.

**disaster recovery manager (DRM)**

A function that assists in preparing and using a disaster recovery plan file for the server.

**disaster recovery plan**

A file that is created by the disaster recovery manager (DRM) that contains information about how to recover computer systems if a disaster occurs and scripts that can be run to perform some recovery tasks. The file includes information about the software and hardware that is used by the server, and the location of recovery media.

**domain**

A grouping of client nodes with one or more policy sets, which manage data or storage resources for the client nodes. See *policy domain* or *client domain*.

**DRM** See *disaster recovery manager*.

**DSMAPI**

See *data storage-management application-programming interface*.

**dynamic serialization**

A type of copy serialization in which a file or folder is backed up or archived on the first attempt regardless of whether it changes during a backup or archive.

**E**

**EA** See *extended attribute*.

**EB** See *exabyte*.

**EFS** See *Encrypted File System*.

**Encrypted File System (EFS)**

A file system that uses file system-level encryption.

**enterprise configuration**

A method of setting up servers so that the administrator can distribute the configuration of one of the servers to the other servers, using server-to-server communication. See also *configuration manager*, *managed server*, *profile*, and *subscription*.

**enterprise logging**

The process of sending events from a Tivoli Storage Manager server to a designated event server. The event server routes the events to designated receivers, such as to a user exit. See also *event*.

**error log**

A data set or file that is used to record error information about a product or system.

**estimated capacity**

The available space, in megabytes, of a storage pool.

**event** (1) An administrative command or a client operation that is scheduled to be run using Tivoli Storage Manager scheduling.

(2) A message that an Tivoli Storage Manager server or client issues. Messages can be logged using Tivoli Storage Manager event logging.

**event record**

A database record that describes actual status and results for events.

**event server**

A server to which other servers can send events for logging. The event server routes the events to any receivers that are enabled for the sending server's events.

**exabyte (EB)**

For processor storage, real and virtual storage, and channel volume, 1 152 921 504 606 846 976 bytes. For disk storage capacity and communications volume, 1 000 000 000 000 000 000 bytes.

**exclude**

The process of identifying files in an include-exclude list. This process

prevents the files from being backed up or migrated whenever a user or schedule enters an incremental or selective backup operation. A file can be excluded from backup and space management, backup only, or space management only.

**exclude-include list**

See *include-exclude list*.

**execution mode**

A mode that controls the space-management related behavior of commands that run under the **dsmmode** command.

**expiration**

The process by which files, data sets, or objects are identified for deletion because their expiration date or retention period has passed.

**expiring file**

A migrated or premigrated file that has been marked for expiration and removal from storage. If a stub file or an original copy of a premigrated file is deleted from a local file system, or if the original copy of a premigrated file is updated, the corresponding migrated or premigrated file is marked for expiration the next time reconciliation is run.

**extend**

To increase the portion of available space that can be used to store database or recovery log information.

**extended attribute (EA)**

Names or value pairs that are associated with files or directories. There are three classes of extended attributes: user attributes, system attributes, and trusted attributes.

**extent** The part of a file that is created during the data-deduplication process. Extents are compared with other file extents to identify duplicates.

**external library**

A type of library that is provided by Tivoli Storage Manager that permits LAN-free data movement for StorageTek libraries that are managed by Automated Cartridge System Library Software (ACSLs). To activate this function, the Tivoli Storage Manager library type must be EXTERNAL.

**F**

**file access time**

On AIX, UNIX, or Linux systems, the time when the file was last accessed.

**file age**

For migration prioritization purposes, the number of days since a file was last accessed.

**file device type**

A device type that specifies the use of sequential access files on disk storage as volumes.

**file server**

A dedicated computer and its peripheral storage devices that are connected to a local area network that stores programs and files that are shared by users on the network.

**file space**

A logical space in server storage that contains a group of files that have been backed up or archived by a client node, from a single logical partition, file system, or virtual mount point. Client nodes can restore,

retrieve, or delete their file spaces from server storage. In server storage, files belonging to a single file space are not necessarily stored together.

**file space ID (FSID)**

A unique numeric identifier that the server assigns to a file space when it is stored in server storage.

**file state**

The space management mode of a file that resides in a file system to which space management has been added. A file can be in one of three states: resident, premigrated, or migrated. See also *resident file*, *premigrated file*, and *migrated file*.

**file system migrator (FSM)**

A kernel extension that intercepts all file system operations and provides any space management support that is required. If no space management support is required, the operation is passed to the operating system, which performs its normal functions. The file system migrator is mounted over a file system when space management is added to the file system.

**file system state**

The storage management mode of a file system that resides on a workstation on which the hierarchical storage management (HSM) client is installed. A file system can be in one of these states: native, active, inactive, or global inactive.

**frequency**

A copy group attribute that specifies the minimum interval, in days, between incremental backups.

**FSID** See *file space ID*.

**FSM** See *file system migrator*.

**full backup**

The process of backing up the entire server database. A full backup begins a new database backup series. See also *database backup series* and *incremental backup*. Contrast with *database snapshot*.

**fuzzy backup**

A backup version of a file that might not accurately reflect what is currently in the file because the file was backed up at the same time as it was being modified.

**fuzzy copy**

A backup version or archive copy of a file that might not accurately reflect the original contents of the file because it was backed up or archived the file while the file was being modified. See also *backup version* and *archive copy*.

**G**

**General Parallel File System**

A high-performance shared-disk file system that can provide data access from nodes in a cluster environment.

**gigabyte (GB)**

In decimal notation, 1 073 741 824 when referring to memory capacity; in all other cases, it is defined as 1 000 000 000.

**global inactive state**

The state of all file systems to which space management has been added when space management is globally deactivated for a client node. When

space management is globally deactivated, hierarchical storage management (HSM) cannot perform migration, recall, or reconciliation. However, a root user can update space management settings and add space management to additional file systems. Users can access resident and premigrated files.

**Globally Unique Identifier (GUID)**

An algorithmically determined number that uniquely identifies an entity within a system.

**GPFS™**

See *General Parallel File System*.

**GPFS node set**

A mounted, defined group of GPFS file systems.

**group backup**

The backup of a group containing a list of files from one or more file space origins.

**GUID** See *Globally Unique Identifier*.

**H**

**hierarchical storage management (HSM)**

A function that automatically distributes and manages data on disk, tape, or both by regarding devices of these types and potentially others as levels in a storage hierarchy that range from fast, expensive devices to slower, cheaper, and possibly removable devices. The objectives are to minimize access time to data and maximize available media capacity.

**hierarchical storage management (HSM) client**

A client program that works with the Tivoli Storage Manager server to provide hierarchical storage management (HSM) for a system. See also *hierarchical storage management* and *space manager client*.

**HSM** See *hierarchical storage management*.

**HSM client**

See *hierarchical storage management client*.

**I**

**ILM** See *information lifecycle management*.

**image** A file system or raw logical volume that is backed up as a single object.

**image backup**

A backup of a full file system or raw logical volume as a single object.

**inactive file system**

A file system for which space management has been deactivated. Contrast with *active file system*.

**inactive version**

A backup version of a file that is either not the most recent backup version, or that is a backup version of a file that no longer exists on the client system. Inactive backup versions are eligible for expiration processing according to the management class assigned to the file. Contrast with *active version*.



**include-exclude file**

A file containing statements to determine the files to back up and the associated management classes to use for backup or archive. See also *include-exclude list*.

**include-exclude list**

A list of options that include or exclude selected files for backup. An exclude option identifies files that should not be backed up. An include option identifies files that are exempt from the exclusion rules or assigns a management class to a file or a group of files for backup or archive services.

**incremental backup**

(1) A copy of all database data that has changed since the most recent successful full backup operation. An incremental backup is also known as a *cumulative backup image* because each incremental backup includes the contents of the previous incremental backup.

(2) The process of backing up information in the database that is new or changed since the last full backup. Contrast with *full backup*. See also *database backup series*.

(3) For Data Protection for Microsoft Exchange Server, a backup in which the transaction logs are backed up and then cleared.

**individual mailbox restore**

See *mailbox restore*.

**information lifecycle management (ILM)**

GPFS policy-based file management for storage pools and file sets.

**inode** The internal structure that describes the individual files on AIX, UNIX, or Linux systems. An inode contains the node, type, owner, and location of a file.

**inode number**

A number specifying a particular inode file in the file system.

**IP address**

A unique address for a device or logical unit on a network that uses the IP standard.

**J****job file**

A generated file that contains configuration information for a migration job. The file is XML format and can be created and edited in the hierarchical storage management (HSM) client for Windows client graphical user interface.

**journal-based backup**

A method for backing up Windows clients and AIX clients that exploits the change notification mechanism in a file to improve incremental backup performance by reducing the need to fully scan the file system.

**journal daemon**

On AIX, UNIX, or Linux systems, a program that tracks change activity for files residing in file systems.

**journal service**

In Microsoft Windows, a program that tracks change activity for files residing in file systems.

## K

### kilobyte (KB)

For processor storage, real and virtual storage, and channel volume, 2<sup>10</sup> or 1 024 bytes. For disk storage capacity and communications volume, 1 000 bytes.

## L

**LAN** See *local area network*.

### LAN-free data movement

The movement of client data between a client system and a storage device on a storage area network (SAN), bypassing the local area network. This process is also referred to as *LAN-free data transfer*.

### LAN-free data transfer

See *LAN-free data movement*.

### leader data

Bytes of data, from the beginning of a migrated file, that are stored in the file's corresponding stub file on the local file system. The amount of leader data that is stored in a stub file depends on the stub size that is specified.

### library

(1) A repository for demountable recorded media, such as magnetic disks and magnetic tapes.

(2) A collection of one or more drives, and possibly robotic devices (depending on the library type), which can be used to access storage volumes.

### library client

A server that uses server-to-server communication to access a library that is managed by another storage management server. See also *library manager*.

### library manager

A server that controls device operations when multiple storage management servers share a storage device. See also *library client*.

### local

(1) Pertaining to a device, file, or system that is accessed directly from a user system, without the use of a communication line.

(2) For HSM products, pertaining to the destination of migrated files that are being moved.

### local area network (LAN)

A network that connects several devices in a limited area (such as a single building or campus) and that can be connected to a larger network.

### local shadow volumes

Data that is stored on shadow volumes localized to a disk storage subsystem.

**LOFS** See *loopback virtual file system*.

### logical file

A file that is stored in one or more server storage pools, either by itself or as part of an aggregate. See also *aggregate* and *physical file*.

### logical occupancy

The space that is used by logical files in a storage pool. This space does

not include the unused space created when logical files are deleted from aggregate files, so it might be less than the physical occupancy.

**logical unit (LU)**

An access point through which a user or application program accesses the Systems Network Architecture (SNA) network to communicate with another user or application program.

**logical unit number (LUN)**

In the Small Computer System Interface (SCSI) standard, a unique identifier that is used to differentiate devices, each of which is a logical unit (LU).

**logical volume**

A portion of a physical volume that contains a file system.

**logical volume backup**

A backup of a file system or logical volume as a single object.

**Logical Volume Snapshot Agent (LVSA)**

Software that can act as the snapshot provider for creating a snapshot of a logical volume during an online image backup.

**loopback virtual file system (LOFS)**

A file system that is created by mounting a directory over another local directory, also known as mount-over-mount. A LOFS can also be generated using an automounter.

**LU** See *logical unit*.

**LUN** See *logical unit number*.

**LVSA** See *Logical Volume Snapshot Agent*.

**M**

**macro file**

A file that contains one or more storage manager administrative commands, which can be run only from an administrative client using the MACRO command. Contrast with *Tivoli Storage Manager command script*.

**mailbox restore**

A function that restores Microsoft Exchange Server data (from IBM Data Protection for Microsoft Exchange backups) at the mailbox level or mailbox-item level.

**managed object**

In Tivoli Storage Manager, a definition in the database of a managed server that was distributed to the managed server by a configuration manager. When a managed server subscribes to a profile, all objects that are associated with that profile become managed objects in the database of the managed server. In general, a managed object cannot be modified locally on the managed server. Objects can include policy, schedules, client option sets, server scripts, administrator registrations, server definitions, and server group definitions.

**managed server**

A Tivoli Storage Manager server that receives configuration information from a configuration manager using a subscription to one or more profiles. Configuration information can include definitions of objects such as policy and schedules. See also *configuration manager*, *subscription*, and *profile*.

**management class**

A policy object that users can bind to each file to specify how the server manages the file. The management class can contain a backup copy group, an archive copy group, and space management attributes. See also *copy group*, *space manager client*, *bind*, and *rebind*.

**maximum transmission unit**

The largest possible unit of data that can be sent on a given physical medium in a single frame. For example, the maximum transmission unit for Ethernet is 1500 bytes.

**MB** See *megabyte*.

**media server**

In a z/OS® environment, a program that provides access to z/OS disk and tape storage for Tivoli Storage Manager servers that run on operating systems other than z/OS.

**megabyte (MB)**

(1) 1 048 576 bytes (2 to the 20th power) when used in this publication.

(2) For processor storage, real and virtual storage, and channel volume, 2 to the power of 20 or 1 048 576 bits. For disk storage capacity and communications volume, 1 000 000 bits.

**metadata**

Data that describes the characteristics of data; descriptive data.

**migrate**

To move data from one storage location to another. In Tivoli Storage Manager products, migrating can mean moving data from a client node to server storage, or moving data from one storage pool to the next storage pool defined in the server storage hierarchy. In both cases the movement is controlled by policy, such as thresholds that are set. See also *migration threshold*.

**migrated file**

A file that has been copied from a local file system to Tivoli Storage Manager storage. For HSM clients on UNIX or Linux systems, the file is replaced with a stub file on the local file system. On Windows systems, creation of the stub file is optional. See also *stub file* and *resident file*. For HSM clients on UNIX or Linux systems, contrast with *premigrated file*.

**migrate-on-close recall mode**

A mode that causes a migrated file to be recalled back to its originating file system temporarily. Contrast with *normal recall mode* and *read-without-recall recall mode*.

**migration job**

A specification of files to migrate, and actions to perform on the original files after migration. See also *job file*.

**migration threshold**

High and low capacities for storage pools or file systems, expressed as percentages, at which migration is set to start and stop.

**mirroring**

The process of writing the same data to multiple locations at the same time. Mirroring data protects against data loss within the recovery log.

**mode** A copy group attribute that specifies whether to back up a file that has not been modified since the last time the file was backed up. See *modified mode* and *absolute mode*.

**modified mode**

In storage management, a backup copy-group mode that specifies that a file is considered for incremental backup only if it has changed since the last backup. A file is considered a changed file if the date, size, owner, or permissions of the file have changed. See also *absolute mode*.

**mount limit**

The maximum number of volumes that can be simultaneously accessed from the same device class. The mount limit determines the maximum number of mount points. See also *mount point*.

**mount point**

On the Tivoli Storage Manager server, a logical drive through which volumes in a sequential access device class are accessed. For removable-media device types, such as tape, a mount point is a logical drive that is associated with a physical drive. For the file device type, a mount point is a logical drive that is associated with an I/O stream. The number of mount points for a device class is defined by the value of the mount limit attribute for that device class. See also *mount limit*.

**mount retention period**

The maximum number of minutes that the server retains a mounted sequential-access media volume that is not being used before it dismounts the sequential-access media volume.

**mount wait period**

The maximum number of minutes that the server waits for a sequential-access volume mount request to be satisfied before canceling the request.

**MTU** See *maximum transmission unit*.

**N**

**Nagle algorithm**

An algorithm that reduces congestion of TCP/IP networks by combining smaller packets and sending them together.

**named pipe**

A type of interprocess communication that permits message data streams to pass between peer processes, such as between a client and a server.

**NAS** See *network-attached storage*.

**NAS node**

A client node that is a network-attached storage (NAS) file server. Data for the NAS node is transferred by a NAS file server that is controlled by the network data management protocol (NDMP). A NAS node is also called a NAS file server node.

**native file system**

A file system that is locally added to the file server and is not added for space management. The hierarchical storage manager (HSM) client does not provide space management services to the file system.

**native format**

A format of data that is written to a storage pool directly by the Tivoli Storage Manager server. Contrast with *non-native data format*.

**NDMP**

See *Network Data Management Protocol*.

**NetBIOS**

See *Network Basic Input/Output System*.

**network-attached storage (NAS) file server**

A dedicated storage device with an operating system that is optimized for file-serving functions. A NAS file server can have the characteristics of both a node and a data mover.

**Network Basic Input/Output System (NetBIOS)**

A standard interface to networks and personal computers that is used on local area networks to provide message, print-server, and file-server functions. Application programs that use NetBIOS do not have to handle the details of LAN data link control (DLC) protocols.

**Network Data Management Protocol (NDMP)**

A protocol that allows a network storage-management application to control the backup and recovery of an NDMP-compliant file server, without installing vendor-acquired software on that file server.

**network data-transfer rate**

A rate that is calculated by dividing the total number of bytes that are transferred by the data transfer time. For example, this rate can be the time that is spent transferring data over a network.

**node** A file server or workstation on which the backup-archive client program has been installed, and which has been registered to the server.

**node name**

A unique name that is used to identify a workstation, file server, or PC to the server.

**node privilege class**

A privilege class that gives an administrator the authority to remotely access backup-archive clients for a specific client node or for all clients in a policy domain. See also *privilege class*.

**non-native data format**

A format of data that is written to a storage pool that differs from the format that the server uses for operations.

**normal recall mode**

A mode that causes a migrated file to be copied back to its originating file system when it is accessed.

**O****offline volume backup**

A backup in which the volume is locked so that no other system applications can access it during the backup operation.

**online volume backup**

A backup in which the volume is available to other system applications during the backup operation.

**open registration**

A registration process in which users can register their workstations as client nodes with the server. Contrast with *closed registration*.

**operator privilege class**

A privilege class that gives an administrator the authority to disable or halt



the server, enable the server, cancel server processes, and manage removable media. See also *privilege class*.

**options file**

A file that contains processing options. On Windows and NetWare systems, the file is called dsm.opt. On AIX, UNIX, Linux, and Mac OS X systems, the file is called dsm.sys.

**originating file system**

The file system from which a file was migrated. When a file is recalled using normal or migrate-on-close recall mode, it is always returned to its originating file system.

**orphaned stub file**

A file for which no migrated file can be found on the Tivoli Storage Manager server that the client node is contacting for space management services. For example, a stub file can be orphaned when the client system-options file is modified to contact a server that is different than the one to which the file was migrated.

**out-of-space protection mode**

A mode that controls whether the program intercepts out-of-space conditions. See also *execution mode*.

**P**

**pacing**

In SNA, a technique by which the receiving system controls the rate of transmission of the sending system to prevent overrun.

**packet** In data communication, a sequence of binary digits, including data and control signals, that is transmitted and switched as a composite whole.

**page** A defined unit of space on a storage medium or within a database volume.

**partial-file recall mode**

A recall mode that causes the hierarchical storage management (HSM) function to read just a portion of a migrated file from storage, as requested by the application accessing the file.

**password generation**

A process that creates and stores a new password in an encrypted password file when the old password expires. Automatic generation of a password prevents password prompting. Password generation can be set in the options file (passwordaccess option). See also *options file*.

**path** An object that defines a one-to-one relationship between a source and a destination. Using the path, the source accesses the destination. Data can flow from the source to the destination, and back. An example of a source is a data mover (such as a network-attached storage [NAS] file server), and an example of a destination is a tape drive.

**pattern-matching character**

See *wildcard character*.

**physical file**

A file that is stored in one or more storage pools, consisting of either a single logical file, or a group of logical files that are packaged together as an aggregate. See also *aggregate* and *logical file*.

**physical occupancy**

The amount of space that is used by physical files in a storage pool. This

space includes the unused space that is created when logical files are deleted from aggregates. See also *physical file*, *logical file*, and *logical occupancy*.

**plug-in**

A self-contained software component that modifies (adds, or changes) the function in a particular system. When a plug-in is added to a system, the foundation of the original system remains intact.

**policy domain**

A grouping of policy users with one or more policy sets, which manage data or storage resources for the users. The users are client nodes that are associated with the policy domain.

**policy privilege class**

A privilege class that gives an administrator the authority to manage policy objects, register client nodes, and schedule client operations for client nodes. Authority can be restricted to certain policy domains. See also *privilege class*.

**policy set**

A group of rules in a policy domain. The rules specify how data or storage resources are automatically managed for client nodes in the policy domain. Rules can be contained in management classes. See also *active policy set* and *management class*.

**premigrated file**

A file that has been copied to Tivoli Storage Manager storage, but has not been replaced with a stub file on the local file system. An identical copy of the file resides both on the local file system and in Tivoli Storage Manager storage. Premigrated files occur on UNIX and Linux file systems to which space management has been added. Contrast with *migrated file* and *resident file*.

**premigrated files database**

A database that contains information about each file that has been premigrated to Tivoli Storage Manager storage. The database is stored in a hidden directory named `.SpaceMan` in each file system to which space management has been added.

**premigration**

The process of copying files that are eligible for migration to Tivoli Storage Manager storage, but leaving the original file intact on the local file system.

**premigration percentage**

A space management setting that controls whether the next eligible candidates in a file system are premigrated following threshold or demand migration.

**primary storage pool**

A named set of volumes that the server uses to store backup versions of files, archive copies of files, and files migrated from client nodes. See also *destination* and *copy storage pool*.

**privilege class**

A level of authority that is granted to an administrator. The privilege class determines which administrative tasks the administrator can perform. See also *node privilege class*, *operator privilege class*, *policy privilege class*, *storage privilege class*, and *system privilege class*.

**profile**

A named group of configuration information that can be distributed from a configuration manager when a managed server subscribes. Configuration information can include registered administrator IDs, policies, client schedules, client option sets, administrative schedules, storage manager command scripts, server definitions, and server group definitions. See also *configuration manager* and *managed server*.

**Q**

**quota** (1) For HSM on AIX, UNIX, or Linux systems, the limit (in megabytes) on the amount of data that can be migrated and premigrated from a file system to server storage.

(2) For HSM on Windows systems, a user-defined limit to the space that is occupied by recalled files.

**R****randomization**

The process of distributing schedule start times for different clients within a specified percentage of the schedule's startup window.

**raw logical volume**

A portion of a physical volume that is comprised of unallocated blocks and has no journaled file system (JFS) definition. A logical volume is read/write accessible only through low-level I/O functions.

**read-without-recall recall mode**

A mode that causes hierarchical storage management (HSM) to read a migrated file from storage without storing it back on the local file system. The last piece of information read from the file is stored in a buffer in memory on the local file system. Contrast with *normal recall mode* and *migrate-on-close recall mode*.

**rebind**

To associate all backed-up versions of a file with a new management class name. For example, a file that has an active backup version is rebound when a later version of the file is backed up with a different management class association. See also *bind*.

**recall** In Tivoli Storage Manager, to copy a migrated file from server storage back to its originating file system using the space management client. See also *transparent recall*, *selective recall*, and *recall mode*.

**recall mode**

A mode that is assigned to a migrated file with the **dsmattr** command that determines how the file is processed when it is recalled. It determines whether the file is stored on the local file system, is migrated back to Tivoli Storage Manager storage when it is closed, or is read from Tivoli Storage Manager storage without storing it on the local file system.

**receiver**

A server repository that contains a log of server and client messages as events. For example, a receiver can be a file exit, a user exit, or the Tivoli Storage Manager server console and activity log. See also *event*.

**reclamation**

The process of consolidating the remaining data from many sequential-access volumes onto fewer, new sequential-access volumes.

**reclamation threshold**

The percentage of space that a sequential-access media volume must have before the server can reclaim the volume. Space becomes reclaimable when files are expired or are deleted.

**reconciliation**

The process of synchronizing a file system with the Tivoli Storage Manager server, and then removing old and obsolete objects from the Tivoli Storage Manager server.

**recovery log**

A log of updates that are about to be written to the database. The log can be used to recover from system and media failures. The recovery log consists of the active log (including the log mirror) and archive logs.

**register**

To define a client node or administrator ID that can access the server.

**registry**

A repository that contains access and configuration information for users, systems, and software.

**remote**

- (1) Pertaining to a system, program, or device that is accessed through a communication line.
- (2) For HSM products, pertaining to the origin of migrated files that are being moved.

**resident file**

On a Windows system, a complete file on a local file system that might also be a migrated file because a migrated copy can exist in Tivoli Storage Manager storage. On a UNIX or Linux system, a complete file on a local file system that has not been migrated or premigrated, or that has been recalled from Tivoli Storage Manager storage and modified. Contrast with *stub file* and *premigrated file*. See *migrated file*.

**restore**

To copy information from its backup location to the active storage location for use. For example, to copy information from server storage to a client workstation.

**retention**

The amount of time, in days, that inactive backed-up or archived files are kept in the storage pool before they are deleted. Copy group attributes and default retention grace periods for the domain define retention.

**retrieve**

To copy archived information from the storage pool to the workstation for use. The retrieve operation does not affect the archive version in the storage pool.

**roll back**

To remove changes that were made to database files since the last commit point.

**root user**

A system user who operates without restrictions. A root user has the special rights and privileges needed to perform administrative tasks.

**S**

**SAN** See *storage area network*.

**schedule**

A database record that describes client operations or administrative commands to be processed. See *administrative command schedule* and *client schedule*.

**scheduling mode**

The type of scheduling operation for the server and client node that supports two scheduling modes: client-polling and server-prompted.

**scratch volume**

A labeled volume that is either blank or contains no valid data, that is not defined, and that is available for use.

**script**

A series of commands, combined in a file, that carry out a particular function when the file is run. Scripts are interpreted as they are run. Contrast with *Tivoli Storage Manager command script*.

**Secure Sockets Layer (SSL)**

A security protocol that provides communication privacy. With SSL, client/server applications can communicate in a way that is designed to prevent eavesdropping, tampering, and message forgery.

**selective backup**

The process of backing up certain files or directories from a client domain. The files that are backed up are those that are not excluded in the include-exclude list. The files must meet the requirement for serialization in the backup copy group of the management class that is assigned to each file. Contrast with *incremental backup*.

**selective migration**

The process of copying user-selected files from a local file system to Tivoli Storage Manager storage and replacing the files with stub files on the local file system. Contrast with *threshold migration* and *demand migration*.

**selective recall**

The process of copying user-selected files from Tivoli Storage Manager storage to a local file system. Contrast with *transparent recall*.

**serialization**

The process of handling files that are modified during backup or archive processing. See *dynamic serialization*, *static serialization*, *shared static serialization*, and *shared dynamic serialization*.

**server**

A software program or a computer that provides services to other software programs or other computers.

**server options file**

A file that contains settings that control various server operations. These settings affect such things as communications, devices, and performance.

**server-prompted scheduling mode**

A client/server communication technique where the server contacts the client node when tasks must be done. Contrast with *client-polling scheduling mode*.

**server storage**

The primary, copy, and active-data storage pools that are used by the server to store user files such as backup versions, archive copies, and files migrated from space manager client nodes (space-managed files). See also *active-data pool*, *primary storage pool*, *copy storage pool*, *storage pool volume*, and *volume*.

**session**

A logical or virtual connection between two stations, software programs, or devices on a network that allows the two elements to communicate and exchange data.

**session resource usage**

The amount of wait time, processor time, and space that is used or retrieved during a client session.

**shared dynamic serialization**

A value for serialization that specifies that a file must not be backed up or archived if it is being modified during the operation. Tivoli Storage Manager retries the backup or archive operation a number of times; if the file is being modified during each attempt, Tivoli Storage Manager will back up or archive the file on its last try. See also *serialization*. Contrast with *dynamic serialization*, *shared static serialization*, and *static serialization*.

**shared library**

A library device that is used by multiple storage manager servers.

**shared static serialization**

A copy-group serialization value that specifies that a file must not be modified during a backup or archive operation. Tivoli Storage Manager attempts to retry the operation a number of times. If the file is in use during each attempt, the file is not backed up or archived. See also *serialization*. Contrast with *dynamic serialization*, *shared dynamic serialization*, and *static serialization*.

**snapshot**

An image backup type that consists of a point-in-time view of a volume.

**space-managed file**

A file that is migrated from a client node by the space manager client. The space manager client recalls the file to the client node on demand.

**space management**

The process of keeping sufficient free storage space available on a local file system for new data by migrating files to server storage. Synonymous with *hierarchical storage management*.

**space manager client**

A program that runs on a UNIX or Linux system to manage free space on the local file system by migrating files to server storage. The program can recall the files either automatically or selectively. Also called *hierarchical storage management (HSM) client*.

**space monitor daemon**

A daemon that checks space usage on all file systems for which space management is active, and automatically starts threshold migration when space usage on a file system equals or exceeds its high threshold.

**sparse file**

A file that is created with a length greater than the data it contains, leaving empty spaces for the future addition of data.

**special file**

On AIX, UNIX, or Linux systems, a file that defines devices for the system, or temporary files that are created by processes. There are three basic types of special files: first-in, first-out (FIFO); block; and character.

**SSL** See *Secure Sockets Layer*.



**stabilized file space**

A file space that exists on the server but not on the client.

**stanza** A group of lines in a file that together have a common function or define a part of the system. Each stanza is identified by a name that occurs in the first line of the stanza. Depending on the type of file, a stanza is ended by the next occurrence of a stanza name in the file, or by an explicit end-of-stanza marker. A stanza can also be ended by the end of the file.

**startup window**

A time period during which a schedule must be initiated.

**static serialization**

A copy-group serialization value that specifies that a file must not be modified during a backup or archive operation. If the file is in use during the first attempt, the storage manager cannot back up or archive the file. See also *serialization*. Contrast with *dynamic serialization*, *shared dynamic serialization*, and *shared static serialization*.

**storage agent**

A program that enables the backup and restoration of client data directly to and from storage attached to a storage area network (SAN).

**storage area network (SAN)**

A dedicated storage network that is tailored to a specific environment, combining servers, systems, storage products, networking products, software, and services.

**storage hierarchy**

(1) A logical order of primary storage pools, as defined by an administrator. The order is typically based on the speed and capacity of the devices that the storage pools use. The storage hierarchy is defined by identifying the next storage pool in a storage pool definition. See also *storage pool*.

(2) An arrangement of storage devices with different speeds and capacities. The levels of the storage hierarchy include: main storage, such as memory and direct-access storage device (DASD) cache; primary storage (DASD containing user-accessible data); migration level 1 (DASD containing data in a space-saving format); and migration level 2 (tape cartridges containing data in a space-saving format).

**storage pool**

A named set of storage volumes that are the destination that is used to store client data. A storage pool contains backup versions, archive copies, and files that are migrated from space manager client nodes. A primary storage pool is backed up to a copy storage pool. See also *primary storage pool*, *copy storage pool*, and *active-data pool*.

**storage pool volume**

A volume that has been assigned to a storage pool. See also *volume*, *active-data pool*, *copy storage pool*, and *primary storage pool*.

**storage privilege class**

A privilege class that gives an administrator the authority to control how storage resources for the server are allocated and used, such as monitoring the database, the recovery log, and server storage. See also *privilege class*.

**stub**

A shortcut on the Windows file system that is generated by the hierarchical storage management (HSM) client for a migrated file that allows

transparent user access. A stub is the sparse file representation of a migrated file, with a reparse point attached.

**stub file**

A file that replaces the original file on a local file system when the file is migrated to storage. A stub file contains the information that is necessary to recall a migrated file from Tivoli Storage Manager storage. It also contains additional information that can be used to eliminate the need to recall a migrated file.

**stub file size**

The size of a file that replaces the original file on a local file system when the file is migrated to Tivoli Storage Manager storage. The size that is specified for stub files determines how much leader data can be stored in the stub file. The default for stub file size is the block size defined for a file system minus 1 byte.

**subscription**

In a Tivoli environment, the process of identifying the subscribers that the profiles are distributed to. For Tivoli Storage Manager, a subscription is the process by which a managed server receives configuration information associated with a particular profile on a configuration manager. See also *managed server*, *configuration manager*, and *profile*.

**system privilege class**

A privilege class that gives an administrator the authority to issue all server commands. See also *privilege class*.

**Systems Network Architecture (SNA)**

The description of the logical structure, formats, protocols, and operational sequences for transmitting information through and controlling the configuration and operation of networks.

**T****tape library**

A set of equipment and facilities that support an installation's tape environment. The tape library can include tape storage racks, mechanisms for automatic tape mounting, a set of tape drives, and a set of related tape volumes mounted on those drives.

**tape volume prefix**

The high-level-qualifier of the file name or the data set name in the standard tape label.

**target node**

A client node for which other client nodes (called agent nodes) have been granted proxy authority. The proxy authority allows the agent nodes to perform operations such as backup and restore on behalf of the target node, which owns the data.

**TCA** See *trusted communications agent*.

**TCP/IP**

See *Transmission Control Protocol/Internet Protocol*.

**threshold migration**

The process of moving files from a local file system to Tivoli Storage Manager storage based on the high and low thresholds that are defined for the file system. Contrast with *demand migration*, *selective migration*, and *migration job*.

**throughput**

In storage management, the total bytes in the workload, excluding overhead, that are backed up or restored, divided by elapsed time.

**timeout**

A time interval that is allotted for an event to occur or complete before operation is interrupted.

**timestamp control mode**

A mode that determines whether commands preserve the access time for a file or set it to the current time.

**Tivoli Storage Manager command script**

A sequence of Tivoli Storage Manager administrative commands that are stored in the database of the Tivoli Storage Manager server. The script can run from any interface to the server. The script can include substitution for command parameters and conditional logic.

**tombstone object**

A small subset of attributes of a deleted object. The tombstone object is retained for a specified period, and at the end of the specified period, the tombstone object is permanently deleted.

**Transmission Control Protocol/Internet Protocol (TCP/IP)**

An industry-standard, nonproprietary set of communication protocols that provides reliable end-to-end connections between applications over interconnected networks of different types.

**transparent recall**

The process that is used to automatically recall a file to a workstation or file server when the file is accessed. See also *recall mode*. Contrast with *selective recall*.

**trusted communications agent (TCA)**

A program that handles the sign-on password protocol when clients use password generation.

**U**

**UCS-2** A 2-byte (16-bit) encoding scheme based on ISO/IEC specification 10646-1. UCS-2 defines three levels of implementation: Level 1-No combining of encoded elements allowed; Level 2-Combining of encoded elements is allowed only for Thai, Indic, Hebrew, and Arabic; Level 3-Any combination of encoded elements are allowed.

**UNC** See *Universal Naming Convention name*.

**Unicode**

A character encoding standard that supports the interchange, processing, and display of text that is written in the common languages around the world, plus some classical and historical texts. The Unicode standard has a 16-bit character set defined by ISO 10646.

**Unicode-enabled file space**

Unicode file space names provide support for multilingual workstations without regard for the current locale.

**Unicode transformation format 8**

Unicode Transformation Format (UTF), 8-bit encoding form, which is designed for ease of use with existing ASCII-based systems. The CCSID value for data in UTF-8 format is 1208.

**Universal Naming Convention (UNC) name**

A name that is used to access a drive or directory containing files shared across a network. The UNC name includes the system name and a SharePoint name that represents the shared drive or directory.

**Universally Unique Identifier (UUID)**

The 128-bit numeric identifier that is used to ensure that two components do not have the same identifier.

**UTF-8** See *Unicode transformation format 8*.

**UUID** See *Universally Unique Identifier*.

**V****validate**

To check a policy set for conditions that can cause problems if that policy set becomes the active policy set. For example, the validation process checks whether the policy set contains a default management class.

**version**

A backup copy of a file stored in server storage. The most recent backup copy of a file is the active version. Earlier copies of the same file are inactive versions. The number of versions retained by the server is determined by the copy group attributes in the management class.

**virtual file space**

A representation of a directory on a network-attached storage (NAS) file system as a path to that directory.

**virtual volume**

An archive file on a target server that represents a sequential media volume to a source server.

**volume**

A discrete unit of storage on disk, tape or other data recording medium that supports some form of identifier and parameter list, such as a volume label or input/output control. See also *scratch volume*, and *storage pool volume*.

**volume history file**

A file that contains information about volumes that have been used by the server for database backups and for export of administrator, node, policy, or server data. The file also has information about sequential-access storage pool volumes that have been added, reused, or deleted. The information is a copy of volume information that is recorded in the server database.

**Volume Shadow Copy Service**

A set of Microsoft application-programming interfaces (APIs) that you can use to create shadow copy backups of volumes, exact copies of files, including all open files, and so on.

**VSS** See *Volume Shadow Copy Service*.

**VSS Backup**

A backup operation that uses Microsoft Volume Shadow Copy Service (VSS) technology. The backup operation produces an online snapshot (point-in-time consistent copy) of Microsoft Exchange data. This copy can be stored on local shadow volumes or on Tivoli Storage Manager server storage.

**VSS Fast Restore**

A function that uses a Microsoft Volume Shadow Copy Service (VSS)

software provider to restore VSS Backups (IBM Data Protection for Microsoft Exchange database files and log files) that reside on local shadow volumes.

**VSS Instant Restore**

A volume-level hardware-assisted Microsoft Volume Shadow Copy Service (VSS) function where target volumes that contain the snapshot are copied back to the original source volumes.

**VSS offloaded backup**

A backup operation that uses a Microsoft Volume Shadow Copy Service (VSS) hardware provider (installed on an alternate system) to move IBM Data Protection for Microsoft Exchange data to the Tivoli Storage Manager server. This type of backup operation shifts the backup load from the production system to another system.

**VSS Restore**

A function that uses a Microsoft Volume Shadow Copy Service (VSS) software provider to restore VSS Backups (IBM Data Protection for Microsoft Exchange database files and log files) that reside on Tivoli Storage Manager server storage to their original location.

**W**

**wildcard character**

A special character such as an asterisk (\*) or a question mark (?) that can be used to represent one or more characters. Any character or set of characters can replace the wildcard character.

**workstation**

A terminal or personal computer at which a user can run applications and that is usually connected to a mainframe or a network.

**worldwide name**

A 64-bit, unsigned name identifier that is unique.

**workload partition (WPAR)**

A partition within a single operating system instance.









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